



共通规格	
精度等级	JIS B 1702-1 : 1998 *
齿形	全齿高齿
压力角	20°
材料	S45C
热处理	—
齿面硬度	(194HB 以下)
表面处理	追加工部以外黑色表面氧化
* F系列产品的精度相当于表记精度。 * 衬套材质: S45C、螺钉材质: SCM435	

F系列的特点

- 连接时轴与齿轮没有晃动
- 可以在任意方向下进行安装，而且啮合也很简单
- 安装、拆卸简单，可反复使用
- 过载时衬套会打滑，可减轻对齿轮的损伤

安装方法和注意事项

- ① 轴径的推荐公差为 h7。限度为 h8，要减少跳动时推荐采用 h6。
此外，轴径的表面粗糙度以 1.6a 为基准。
- ② 请将连接部的孔和轴表面的垃圾、污渍、油分用稀释剂等擦拭干净，然后轻轻涂抹一层液压油 #68。涂抹钼类油或含添加剂的油会导致紧固转矩降低及打滑，请避免使用。
- ③ 使衬套的肩部与齿轮紧贴的同时完全插入轴中进行连接。此外，齿轮的背面侧需要保留 1mm 以上的间隙，否则将无法拆卸。(图 1)
- ④ 螺栓的紧固方法为使用转矩扳手沿对角线进行紧固。首先以规定转矩的 1/4 拧紧，接着以规定转矩的 1/2 拧紧，最后以规定转矩进行紧固。请勿在未装入轴中的状态下紧固，或将螺栓从顶出螺纹孔侧装入并紧固。(图 2)
- ⑤ 轴上有键槽时，由于连接部的接触面积减少，传动力将下降 15 ~ 20%。

产品型号	齿数	齿径				齿宽	齿长	腹板厚 (H)	齿缘长 (l)	容许转矩 (N·m)	
		B	C	D	E					弯曲强度	齿面强度
SS1.5-26	26	32	39	42					28.2	2.06	
SS1.5-27	27	34	40.5	43.5					29.7	2.23	
SS1.5-28	28	36	42	45					31.2	2.41	
SS1.5-29	29	37	43.5	46.5					32.7	2.60	
SS1.5-30	30	38	45	48					34.2	2.79	
SS1.5-32	32	40	48	51					37.3	3.19	
SS1.5-34	34	40	51	54					40.4	3.63	
SS1.5-35	35	42	52.5	55.5					41.9	3.85	
SS1.5-36	36	45	54	57					43.5	4.09	
SS1.5-38	38	45	57	60					46.6	4.58	
SS1.5-40	40	45	60	63					49.8	5.10	
SS1.5-42	42	45	63	66					52.9	5.40	
SS1.5-44	44	45	66	69					56.1	5.72	
SS1.5-45	45	45	67.5	70.5					57.7	5.88	
SS1.5-46	46	45	69	72					59.3	6.04	
SS1.5-48	48	45	72	75					62.4	6.37	
SS1.5-50	50	45	75	78					65.7	6.69	
SS1.5-52	52	50	78	81					68.9	7.02	
SS1.5-54	54	50	81	84					72.1	7.35	
SS1.5-55	55	50	82.5	85.5					73.7	7.51	
SS1.5-56	56	50	84	87	15	10			75.3	7.68	
SS1.5-58	58	50	87	90					78.5	8.01	
SS1.5-60	60	50	90	93					81.8	8.34	
SS1.5-62	62	55	93	96					85.0	8.67	
SS1.5-64	64	55	96	99					88.3	9.00	
SS1.5-65	65	55	97.5	100.5					89.9	9.17	
SS1.5-66	66	55	99	102					91.5	9.33	
SS1.5-68	68	55	102	105					94.8	9.66	
SS1.5-70	70	55	105	108					98.0	10.0	
SS1.5-72	72	55	108	111					101	10.3	
SS1.5-75	75	60	112.5	115.5					106	10.8	
SS1.5-76	76	60	114	117					108	11.0	
SS1.5-80	80	60	120	123					114	11.7	
SS1.5-84	84	60	126	129					121	12.3	
SS1.5-85	85	60	127.5	130.5					123	12.5	
SS1.5-88	88	60	132	135					128	13.0	
SS1.5-90	90	60	135	138					131	13.3	
SS1.5-95	95	60	142.5	145.5					139	14.2	
SS1.5-100	100	60	150	153			9	125	147	15.0	
SS1.5-120	120	70	180	183			10	153	180	18.4	
SS1.5-150	150	180	225	228			—	—	192	19.6	

※各产品的侧隙请参考原产品的尺寸表。

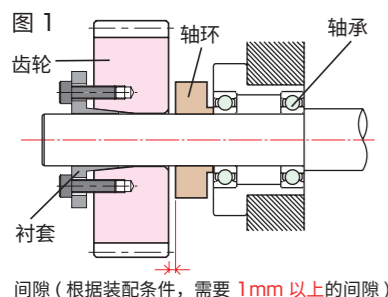


图 1 间隙 (根据装配条件, 需要 1mm 以上的间隙)

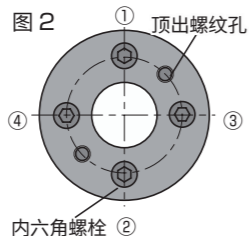
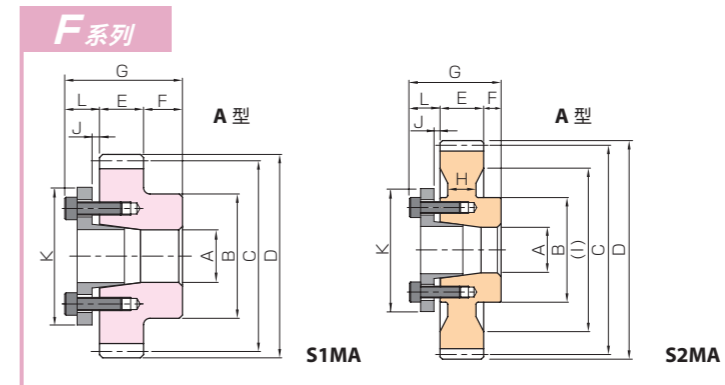


图 2 顶出螺纹孔 ① 内六角螺栓 ②

拆卸方法和注意事项

- ① 请切断动力源 (电源), 确认齿轮不承受载荷且没有掉落等危险。
- ② 将拆下的螺栓全部插入顶出螺纹孔中, 按对角线顺序以均等的力逐渐拧紧后拆卸。
- ③ 重复利用连接螺栓时, 由于座面及螺纹面变粗糙而导致连接力下降, 因此建议使用相同尺寸的新螺栓。



F系列产品型号为**标准品型号 + F + 孔径 + A**

轴孔径 A	*表中颜色与 F 系列形状图的截面颜色相对应。														
	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35
SS1.5-26 F 孔径 A	S1MA														
SS1.5-27 F 孔径 A	S1MA														
SS1.5-28 F 孔径 A	S1MA	S1MA													
SS1.5-29 F 孔径 A	S1MA	S1MA													
SS1.5-30 F 孔径 A	S1MA	S1MA													
SS1.5-32 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA										
SS1.5-34 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA									
SS1.5-35 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA								
SS1.5-36 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA							
SS1.5-38 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA						
SS1.5-40 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA						
SS1.5-42 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA						
SS1.5-44 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA						
SS1.5-45 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-46 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-48 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-50 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-52 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-54 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-55 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-56 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-58 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-60 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-62 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA				
SS1.5-64 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA				
SS1.5-65 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA				
SS1.5-66 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA				
SS1.5-68 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA				
SS1.5-70 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA				
SS1.5-72 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA				
SS1.5-75 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA			
SS1.5-76 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA			
SS1.5-80 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA			
SS1.5-84 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA			
SS1.5-85 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA			
SS1.5-88 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA			
SS1.5-90 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA			
SS1.5-95 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA			
SS1.5-100 F 孔径 A			S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA			
SS1.5-120 F 孔径 A			S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS1.5-150 F 孔径 A										S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
轴孔径 A	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35
参考滑动转矩 N·m	18	23	37	39	42	45	48	49	97	110	124	141	149	163	173
参考推力载荷 kN	3.59	3.76	5.21	5.1	5.17	5.23	5.28	5.12	9.68	9.98	9.90	10.0	9.89	10.1	9.88
衬套	L	10				12						14			
	K	29	31	36	37	38	39	40	42	46	47	51	53	56	61
间隙	J	2								3					
全长	G	35				37						39			
内六角螺栓	根数	3								4					
	尺寸	M4×12				M4×15						M5×18			
	紧固转矩 N·m					3.9						7.8			
衬套质量 (g)		20	22	38	40	41	43	45	49	71	71	81	84	93	106



共通规格	
精度等级	JIS NB级 (JIS B 1702-1 : 1998) *
齿形	全齿高齿
压力角	20°
材料	S45C
热处理	—
齿面硬度	(194HB 以下)
表面处理	追加加工部以外黑色表面氧化

* F系列产品的精度相当于表记精度。
* 衬套材质: S45C、螺钉材质: SCM435

F系列的特点

- 连接时轴与齿轮没有晃动
- 可以在任意方向下进行安装, 而且啮合也很简单
- 安装、拆卸简单, 可反复使用
- 过载时衬套会打滑, 可减轻对齿轮的损伤

安装方法和注意事项

- ① 轴径的推荐公差为 h7。限度为 h8, 要减少跳动时推荐采用 h6。
此外, 轴径的表面粗糙度以 1.6a 为基准。
- ② 请将连接部的孔和轴表面的垃圾、污渍、油分用稀释剂等擦拭干净, 然后轻轻涂抹一层液压油 #68。涂抹钼类油或含添加剂的油会导致紧固转矩降低及打滑, 请避免使用。
- ③ 使衬套的肩部与齿轮紧贴的同时完全插入轴中进行连接。此外, 齿轮的背面侧需要保留 1mm 以上的间隙, 否则将无法拆卸。(图 1)
- ④ 螺栓的紧固方法为使用转矩扳手沿对角线进行紧固。首先以规定转矩的 1/4 拧紧, 接着以规定转矩的 1/2 拧紧, 最后以规定转矩进行紧固。请勿在未装入轴中的状态下紧固, 或将螺栓从顶出螺纹孔侧装入并紧固。(图 2)
- ⑤ 轴上有键槽时, 由于连接部的接触面积减少, 传动力将下降 15 ~ 20%。

产品型号	齿数	分度圆直径				齿宽	齿顶圆直径	齿底圆直径	腹板厚 (H)	齿缘径 (I)	容许转矩 (N·m)	
		B	C	D	E						弯曲强度	齿面强度
SS2-23	23	37	46	50						56.3	3.86	
SS2-24	24	38	48	52						59.8	4.24	
SS2-25	25	40	50	54						63.3	4.64	
SS2-26	26	42	52	56						66.8	5.04	
SS2-27	27	45	54	58						70.4	5.45	
SS2-28	28	45	56	60						73.9	5.89	
SS2-29	29	47	58	62						77.5	6.33	
SS2-30	30	50	60	64						81.1	6.80	
SS2-32	32	50	64	68						88.4	7.78	
SS2-34	34	50	68	72						95.7	8.84	
SS2-35	35	52	70	74						99.3	9.39	
SS2-36	36	55	72	76						103	9.96	
SS2-38	38	55	76	80						111	11.2	
SS2-40	40	55	80	84						118	12.5	
SS2-42	42	55	84	88						125	13.8	
SS2-44	44	55	88	92						133	15.2	
SS2-45	45	55	90	94						137	16.0	
SS2-46	46	55	92	96						140	16.7	
SS2-48	48	55	96	100						148	18.3	
SS2-50	50	55	100	104						156	19.9	
SS2-52	52	55	104	108						163	21.7	
SS2-54	54	55	108	112	20	10				171	23.4	
SS2-55	55	55	110	114						175	24.4	
SS2-56	56	55	112	116						179	25.3	
SS2-58	58	60	116	120						186	27.3	
SS2-60	60	60	120	124						194	29.3	
SS2-62	62	60	124	128						202	31.5	
SS2-64	64	60	128	132						209	33.7	
SS2-65	65	60	130	134						213	34.8	
SS2-66	66	60	132	136						217	36.0	
SS2-68	68	60	136	140						225	38.4	
SS2-70	70	60	140	144						232	40.8	
SS2-72	72	60	144	148						240	43.3	
SS2-75	75	60	150	154						252	47.3	
SS2-76	76	60	152	156						256	48.6	
SS2-80	80	60	160	164						136	27.1	
SS2-84	84	70	168	172						140	28.7	
SS2-85	85	70	170	174						146	29.1	
SS2-88	88	70	176	180						150	30.2	
SS2-90	90	70	180	184						156	31.0	
SS2-95	95	70	190	194						166	33.0	
SS2-100	100	70	200	204						176	29.1	
SS2-120	120	90	240	244						210	35.7	

※各产品的侧隙请参考原产品的尺寸表。

拆卸方法和注意事项

- ① 请切断动力源 (电源), 确认齿轮不承受载荷且没有掉落等危险。
- ② 将拆下的螺栓全部插入顶出螺纹孔中, 按对角线顺序以均等的力逐渐拧紧后拆卸。
- ③ 重复利用连接螺栓时, 由于座面及螺纹面变粗糙而导致连接力下降, 因此建议使用相同尺寸的新螺栓。

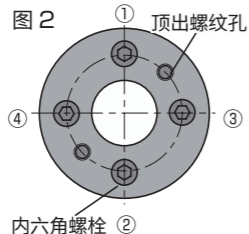
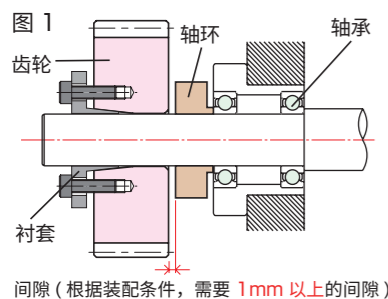
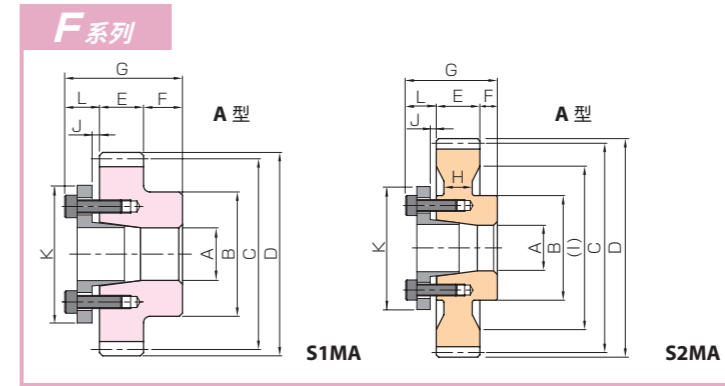


图 1 间隙 (根据装配条件, 需要 1mm 以上的间隙)

图 2 内六角螺栓 ②



F系列产品型号为**标准品型号 + F + 孔径 + A**

轴孔径 A	*表中颜色与 F 系列形状图的截面颜色相对应。															
	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	
SS2-23 F 孔径 A	S1MA															
SS2-24 F 孔径 A	S1MA															
SS2-25 F 孔径 A	S1MA	S1MA														
SS2-26 F 孔径 A	S1MA	S1MA	S1MA	S1MA												
SS2-27 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA										
SS2-28 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA									
SS2-29 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA								
SS2-30 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA							
SS2-32 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA						
SS2-34 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS2-35 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA				
SS2-36 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA			
SS2-38 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA		
SS2-40 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-42 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-44 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-45 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-46 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-48 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-50 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-52 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-54 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-55 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-56 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-58 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-60 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-62 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-64 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-65 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-66 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-68 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-70 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-72 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-75 F 孔径 A									S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-76 F 孔径 A									S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2-80 F 孔径 A									S2MA	S2MA	S2MA	S2MA				
SS2-84 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2-85 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2-88 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2-90 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2-95 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2-100 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2-120 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
轴孔径 A	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	
参考滑动转矩 N·m	23	37	39	42	45	48	49	97	110	124	141	149	163	173	725	
参考推力载荷 kN	3.76	5.21	5.10	5.17	5.23	5.28	5.12	9.68	9.98	9.90	10.0	9.89	10.1	9.88	12.3	
衬套	L	10	12				14				19					
	K	31	36	37	38	39	40	42	46	47	51	53	56	58	61	71
间隙	J	2	3				4				6					
全长	G	40	42				44				49					
内六角螺栓	根数	3	4				6									
	尺寸	M4x12	M4x15				M5x18				M6x25					
	紧固转矩 N·m	3.9				7.8				13.7						
衬套质量 (g)		22	38	40	41	43	45	49	71	71	81	84	93	97	106	237



共通规格	
精度等级	JIS N8级 (JIS B 1702-1:1998) *
齿形	全齿高齿
压力角	20°
材料	S45C
热处理	—
齿面硬度	(194HB 以下)
表面处理	追加加工部以外黑色表面氧化

* F系列产品的精度相当于表记精度。
* 衬套材质: S45C、螺钉材质: SCM435

F系列的特点

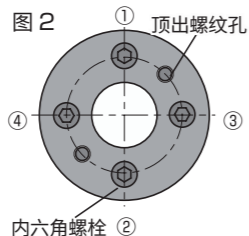
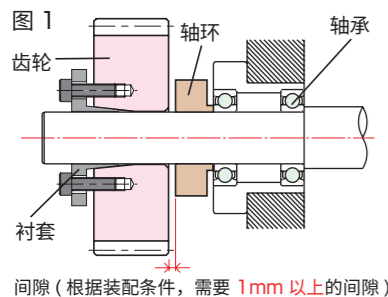
- 连接时轴与齿轮没有晃动
- 可以在任意方向下进行安装，而且啮合也很简单
- 安装、拆卸简单，可反复使用
- 过载时衬套会打滑，可减轻对齿轮的损伤

安装方法和注意事项

- ① 轴径的推荐公差为 h7。限度为 h8，要减少跳动时推荐采用 h6。此外，轴径的表面粗糙度以 1.6a 为基准。
- ② 请将连接部的孔和轴表面的垃圾、污渍、油分用稀释剂等擦拭干净，然后轻轻涂抹一层液压油 #68。涂抹钼类油或含添加剂的油会导致紧固转矩降低及打滑，请避免使用。
- ③ 使衬套的肩部与齿轮紧贴的同时完全插入轴中进行连接。此外，齿轮的背面侧需要保留 1mm 以上的间隙，否则将无法拆卸。(图 1)
- ④ 螺栓的紧固方法为使用转矩扳手沿对角线进行紧固。首先以规定转矩的 1/4 拧紧，接着以规定转矩的 1/2 拧紧，最后以规定转矩进行紧固。请勿在未装入轴中的状态下紧固，或将螺栓从顶出螺纹孔侧装入并紧固。(图 2)
- ⑤ 轴上有键槽时，由于连接部的接触面积减少，传动力将下降 15 ~ 20%。

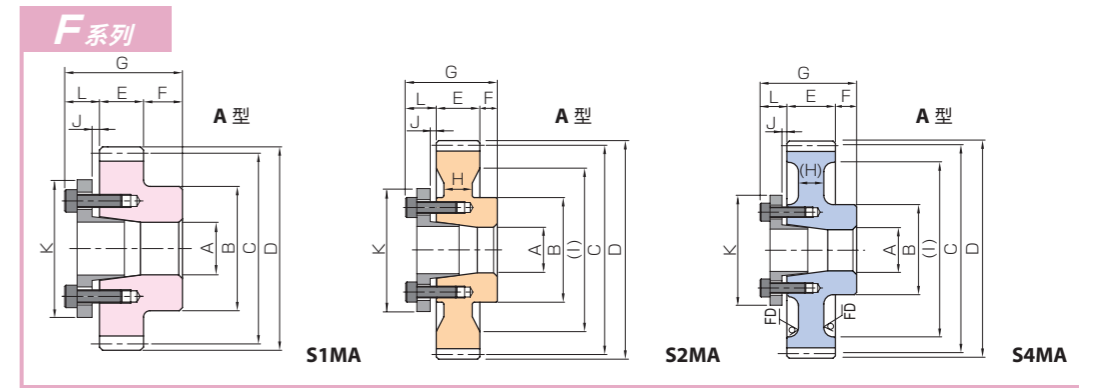
产品型号	齿数	齿径				齿宽	齿长	腹板厚	齿缘径	容许转矩 (N·m)	
		B	C	D	E					弯曲强度	齿面强度
SS2.5-22	22	44	55	60					103	6.99	
SS2.5-23	23	46	57.5	62.5					110	7.71	
SS2.5-24	24	48	60	65					117	8.47	
SS2.5-25	25	50	62.5	67.5					124	9.26	
SS2.5-26	26	55	65	70					130	10.1	
SS2.5-27	27	60	67.5	72.5					137	10.9	
SS2.5-28	28	60	70	75					144	11.7	
SS2.5-29	29	62	72.5	77.5					151	12.6	
SS2.5-30	30	65	75	80					159	13.6	
SS2.5-32	32	70	80	85					173	15.6	
SS2.5-34	34	70	85	90					187	17.7	
SS2.5-35	35	70	87.5	92.5					194	18.8	
SS2.5-36	36	70	90	95					201	20.0	
SS2.5-38	38	70	95	100					216	22.4	
SS2.5-40	40	70	100	105					230	24.9	
SS2.5-42	42	70	105	110					245	27.6	
SS2.5-44	44	70	110	115					260	30.5	
SS2.5-45	45	70	112.5	117.5					267	31.9	
SS2.5-46	46	70	115	120					274	33.5	
SS2.5-48	48	70	120	125					289	36.7	
SS2.5-50	50	70	125	130					304	40.0	
SS2.5-52	52	70	130	135					319	43.5	
SS2.5-54	54	70	135	140					334	47.2	
SS2.5-55	55	70	137.5	142.5					341	49.1	
SS2.5-56	56	70	140	145					349	51.0	
SS2.5-58	58	70	145	150					364	55.0	
SS2.5-60	60	70	150	155			(10)	(127)	379	59.1	
SS2.5-62	62	80	155	160					130	394	63.4
SS2.5-64	64	80	160	165					131	409	67.8
SS2.5-65	65	80	162.5	167.5					134	416	70.1
SS2.5-66	66	80	165	170					140	424	72.4
SS2.5-68	68	80	170	175					140	439	77.2
SS2.5-70	70	80	175	180					146	454	82.1
SS2.5-72	72	80	180	185					151	469	87.1
SS2.5-75	75	80	187.5	192.5					159	492	95.0
SS2.5-76	76	80	190	195					160	499	97.7
SS2.5-80	80	80	200	205					(177)	441	90.9
SS2.5-90	90	90	225	230					(202)	505	117

* 各产品的侧隙请参考原产品的尺寸表。



拆卸方法和注意事项

- ① 请切断动力源(电源)，确认齿轮不承受载荷且没有掉落等危险。
- ② 将拆下的螺栓全部插入顶出螺纹孔中，按对角线顺序以均等的力逐渐拧紧后拆卸。
- ③ 重复利用连接螺栓时，由于座面及螺纹面变粗糙而导致连接力下降，因此建议使用相同尺寸的新螺栓。



F系列产品型号为**标准品型号 + F + 孔径 + A**

轴孔径 A	* 表中颜色与 F 系列形状图的截面颜色相对应。														
	15	16	17	18	19	20	22	25	28	30	32	35	40		
SS2.5-22 F 孔径 A	S1MA	S1MA													
SS2.5-23 F 孔径 A	S1MA	S1MA	S1MA	S1MA											
SS2.5-24 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA										
SS2.5-25 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA									
SS2.5-26 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA									
SS2.5-27 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA									
SS2.5-28 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA									
SS2.5-29 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA							
SS2.5-30 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA						
SS2.5-32 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-34 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-35 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-36 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-38 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-40 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-42 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-44 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-45 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-46 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-48 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-50 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-52 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-54 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-55 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-56 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-58 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS2.5-60 F 孔径 A									S4MA	S4MA	S4MA	S4MA	S4MA	S4MA	
SS2.5-62 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2.5-64 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2.5-65 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2.5-66 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2.5-68 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2.5-70 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2.5-72 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2.5-75 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2.5-76 F 孔径 A									S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	
SS2.5-80 F 孔径 A									S4MA	S4MA	S4MA	S4MA	S4MA	S4MA	
SS2.5-90 F 孔径 A										S4MA	S4MA	S4MA	S4MA	S4MA	
轴孔径 A	15	16	17	18	19	20	22	25	28	30	32	35	40		
参考滑动转矩 N·m	39	42	45	48	49	97	110	124	141	149	163	173	725		
参考推力载荷 kN	5.10	5.17	5.23	5.28	5.12	9.68	9.98	9.90	10.0	9.89	10.1	9.88	12.3		
衬套	L	12						14						19	
	K	37	38	39	40	42	46	47	51	53	56	58	61	71	
间隙	J	3						3							
全长	G	49						51						56	
内六角螺栓	根数	4						4						6	
	尺寸	M4×15						M5×18						M6×25	
	紧固转矩 N·m	3.9						7.8						13.7	
衬套质量 (g)	40	41	43	45	49	71	71	81	84	93	97	106	237		



共通规格	
精度等级	JIS B 1702-1 : 1998 *
齿形	全齿高齿
压力角	20°
材料	S45C
热处理	—
齿面硬度	(194HB 以下)
表面处理	追加加工部以外黑色表面氧化
* F系列产品的精度相当于表记精度。 * 衬套材质: S45C、螺钉材质: SCM435	

F系列的特点

- 连接时轴与齿轮没有晃动
- 可以在任意方向下进行安装，而且啮合也很简单
- 安装、拆卸简单，可反复使用
- 过载时衬套会打滑，可减轻对齿轮的损伤

安装方法和注意事项

- ① 轴径的推荐公差为 h7。限度为 h8，要减少跳动时推荐采用 h6。
此外，轴径的表面粗糙度以 1.6a 为基准。
- ② 请将连接部的孔和轴表面的垃圾、污渍、油分用稀释剂等擦拭干净，然后轻轻涂抹一层液压油 #68。涂抹钼类油或含添加剂的油会导致紧固转矩降低及打滑，请避免使用。
- ③ 使衬套的肩部与齿轮紧贴的同时完全插入轴中进行连接。此外，齿轮的背面侧需要保留 1mm 以上的间隙，否则将无法拆卸。(图 1)
- ④ 螺栓的紧固方法为使用转矩扳手沿对角线进行紧固。首先以规定转矩的 1/4 拧紧，接着以规定转矩的 1/2 拧紧，最后以规定转矩进行紧固。请勿在未装入轴中的状态下紧固，或将螺栓从顶出螺纹孔侧装入并紧固。(图 2)
- ⑤ 轴上有键槽时，由于连接部的接触面积减少，传动力将下降 15 ~ 20%。

产品型号	齿数	分度圆直径				齿宽	齿顶圆直径	齿底圆直径	腹板厚	齿缘径	容许转矩 (N·m)	
		B	C	D	E						弯曲强度	齿面强度
SS3-19	19	45	57	63						144	8.88	
SS3-20	20	50	60	66						155	9.95	
SS3-21	21	52	63	69						167	11.1	
SS3-22	22	54	66	72						178	12.3	
SS3-23	23	56	69	75						190	13.6	
SS3-24	24	58	72	78						202	14.9	
SS3-25	25	60	75	81						214	16.3	
SS3-26	26	65	78	84						226	17.7	
SS3-27	27	65	81	87						237	19.2	
SS3-28	28	70	84	90						250	20.7	
SS3-29	29	70	87	93						262	22.3	
SS3-30	30	75	90	96						274	24.0	
SS3-32	32	75	96	102						298	27.4	
SS3-34	34	80	102	108						323	31.2	
SS3-35	35	80	105	111						335	33.1	
SS3-36	36	80	108	114						348	35.2	
SS3-38	38	80	114	120						373	39.4	
SS3-40	40	80	120	126						398	44.0	
SS3-42	42	80	126	132						423	48.9	
SS3-44	44	80	132	138						449	54.0	
SS3-45	45	80	135	141						461	56.6	
SS3-46	46	80	138	144						474	59.4	
SS3-48	48	80	144	150						500	65.0	
SS3-50	50	80	150	156						(10) (123) 525	70.9	
SS3-52	52	80	156	162						126	55.1	
SS3-54	54	80	162	168						132	57.7	
SS3-55	55	80	165	171						131	59.0	
SS3-56	56	80	168	174						134	60.2	
SS3-58	58	80	174	180						144	62.8	
SS3-60	60	80	180	186						(10) (153) 654	105	
SS3-62	62	80	186	192						150	68.0	
SS3-64	64	80	192	198						158	58.8	
SS3-65	65	80	195	201						161	59.9	
SS3-66	66	90	198	204						160	61.0	
SS3-68	68	90	204	210						170	63.2	
SS3-70	70	90	210	216						176	65.4	
SS3-72	72	90	216	222						182	67.5	
SS3-75	75	90	225	231						190	70.8	
SS3-76	76	90	228	234						190	71.9	
SS3-80	80	90	240	246						(10) (213) 763	162	

※各产品的侧隙请参考原产品的尺寸表。

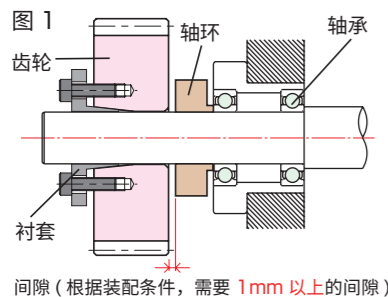


图 1 间隙 (根据装配条件, 需要 1mm 以上的间隙)

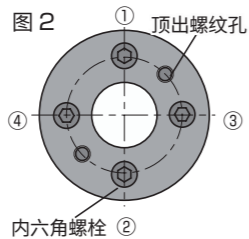
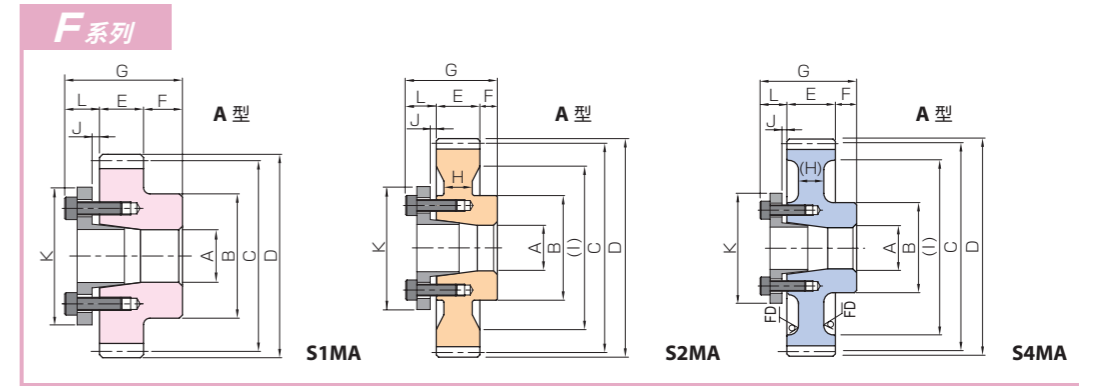


图 2 顶出螺纹孔 ① 内六角螺栓 ②

拆卸方法和注意事项

- ① 请切断动力源 (电源), 确认齿轮不承受载荷且没有掉落等危险。
- ② 将拆下的螺栓全部插入顶出螺纹孔中, 按对角线顺序以均等的力逐渐拧紧后拆卸。
- ③ 重复利用连接螺栓时, 由于座面及螺纹面变粗糙而导致连接力下降, 因此建议使用相同尺寸的新螺栓。



F系列产品型号为**标准品型号 + F + 孔径 + A**

轴孔径 A	*表中颜色与 F 系列形状图的截面颜色相对应。													
	15	16	17	18	19	20	22	25	28	30	32	35	40	
SS3-19 F 孔径 A	S1MA													
SS3-20 F 孔径 A	S1MA	S1MA	S1MA	S1MA										
SS3-21 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA									
SS3-22 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA								
SS3-23 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA								
SS3-24 F 孔径 A	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA								
SS3-25 F 孔径 A						S1MA	S1MA							
SS3-26 F 孔径 A						S1MA	S1MA	S1MA						
SS3-27 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA				
SS3-28 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA		
SS3-29 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS3-30 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS3-32 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS3-34 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-35 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-36 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-38 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-40 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-42 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-44 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-45 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-46 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-48 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-50 F 孔径 A								S4MA	S4MA	S4MA	S4MA	S4MA	S4MA	S4MA
SS3-52 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-54 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-55 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-56 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-58 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-60 F 孔径 A								S4MA	S4MA	S4MA	S4MA	S4MA	S4MA	S4MA
SS3-62 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-64 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-65 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-66 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-68 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-70 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-72 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-75 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-76 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-80 F 孔径 A								S4MA	S4MA	S4MA	S4MA	S4MA	S4MA	S4MA
轴孔径 A	15	16	17	18	19	20	22	25	28	30	32	35	40	
参考滑动转矩 N·m	39	42	45	48	49	97	110	124	141	149	163	173	725	
参考推力载荷 kN	5.10	5.17	5.23	5.28	5.12	9.68	9.98	9.90	10.0	9.89	10.1	9.88	12.3	
衬套	L	12				14				19				
间隙	K	37	38	39	40	42	46	47	51	53	56	58	61	71
全长	G	57				59				64				
内六角螺栓	根数	4				6								
尺寸		M4×15				M5×18				M6×25				
紧固转矩 N·m		3.9				7.8				13.7				
衬套质量 (g)		40	41	43	45	49	71	71	81	84	93	97	106	237