



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	追加工部以外表面氧化

* F系列产品的精度相当于表记精度。

产品型号	齿数	轮径			齿宽	轮缘长	腹板厚	轮缘径
		B	C	D				
SS1.5-26	26	32	39	42	15	10	—	
SS1.5-27	27	34	40.5	43.5				
SS1.5-28	28	36	42	45				
SS1.5-29	29	37	43.5	46.5				
SS1.5-30	30	38	45	48				
SS1.5-32	32	40	48	51				
SS1.5-34	34	40	51	54				
SS1.5-35	35	42	52.5	55.5				
SS1.5-36	36	45	54	57				
SS1.5-38	38	45	57	60				
SS1.5-40	40	45	60	63				
SS1.5-42	42	45	63	66				
SS1.5-44	44	45	66	69				
SS1.5-45	45	45	67.5	70.5				
SS1.5-46	46	45	69	72				
SS1.5-48	48	45	72	75				
SS1.5-50	50	45	75	78				
SS1.5-52	52	50	78	81				
SS1.5-54	54	50	81	84				
SS1.5-55	55	50	82.5	85.5				
SS1.5-56	56	50	84	87				
SS1.5-58	58	50	87	90				
SS1.5-60	60	50	90	93				
SS1.5-62	62	55	93	96				
SS1.5-64	64	55	96	99				
SS1.5-65	65	55	97.5	100.5				
SS1.5-66	66	55	99	102				
SS1.5-68	68	55	102	105				
SS1.5-70	70	55	105	108				
SS1.5-72	72	55	108	111				
SS1.5-75	75	60	112.5	115.5				
SS1.5-76	76	60	114	117				
SS1.5-80	80	60	120	123				
SS1.5-84	84	60	126	129				
SS1.5-85	85	60	127.5	130.5				
SS1.5-88	88	60	132	135				
SS1.5-90	90	60	135	138				
SS1.5-95	95	60	142.5	145.5				
SS1.5-100	100	60	150	153				
SS1.5-120	120	70	180	183				
SS1.5-150	150	180	225	228				

轴孔径 A	衬套		间隙 J	全长 G	内六角螺栓		参考推力荷载 kN	参考滑动转矩 N·m	螺栓紧固转矩 N·m	衬套质量 (g)	
	L	K			根数	尺寸					
10	10	29	2	35	3	M4×12	3.59	18	3.9	20	
12		31					3.76	23		22	
14		36					5.21	37		38	
15		37					5.10	39		40	
16	12	38	37	M4×15	5.17	42	5.23	45	41	43	
17		39			5.28	48	45	45			
18		40			5.12	49	49	49			
19		42			9.68	97	71	71			
20	14	46	39	M5×18	9.98	110	9.90	124	81	81	
22		47			10.0	141	84	84			
25		51			9.89	149	93	93			
28		53			10.1	163	97	97			
30		56			9.88	173			106	106	
32		58									
35		61									



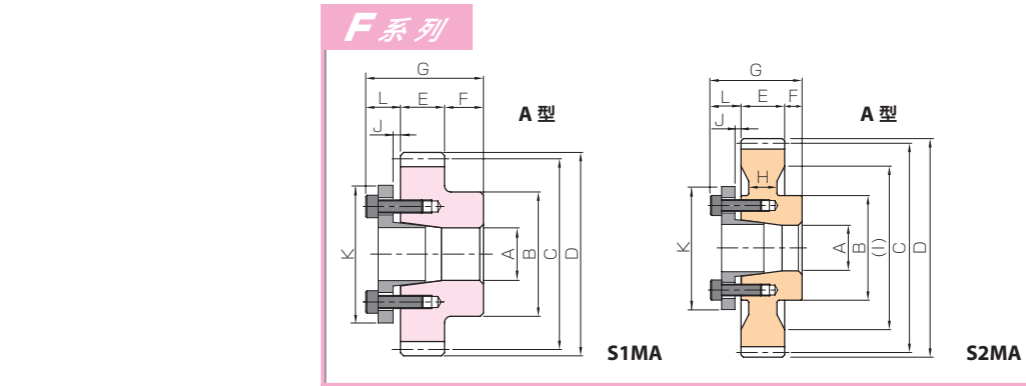
※ 各产品的容许转矩和侧隙请参考原产品的尺寸表。

F系列的特点

- 联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

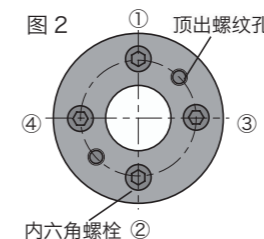
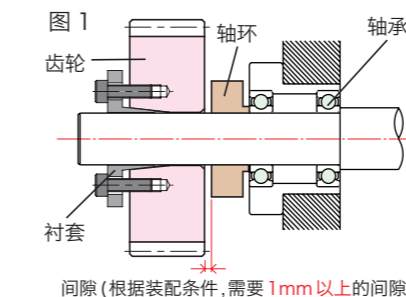
- ①轴径的推荐公差为 h7。限度为 h8，要减少跳动时推荐采用 h6。此外，轴径的表面粗糙度以 1.6a 为基准。
- ②请将联接部的孔和轴表面的垃圾、污渍、油污用稀释剂等擦拭干净，然后轻轻涂抹一层液压油 #68。涂抹铅类油或含添加剂的油会导致紧固转矩降低及打滑，请避免使用。
- ③使衬套的肩部与齿轮紧贴的同时完全插入轴中进行联接。此外，齿轮的背面侧需要保留 1mm 以上的间隙，否则将无法拆卸。(图 1)
- ④螺栓的紧固方法为使用转矩扳手沿对角线进行紧固。首先以规定转矩的 1/4 拧紧，接着以规定转矩的 1/2 拧紧，最后以规定转矩进行紧固。请勿在未装入轴中的状态下紧固，或将螺栓从顶出螺纹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



F系列请以产品型号 +F+ 孔径 +A 进行订购

轴孔径 A	*表中颜色与 F 系列形状图的截面颜色相对应。															
	产品型号	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	S1MA						
SS1.5-42 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA					
SS1.5-44 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA				
SS1.5-45 F 孔径 A		S1MA	S1MA	S1MA	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	S1MA	S1MA	S1MA	S1MA		
SS1.5-48 F 孔径 A		S1MA	S1MA	S1MA	S1MA	S1MA	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	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS1.5-52 F 孔径 A				S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS1.5-54 F 孔径 A				S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS1.5-55 F 孔径 A				S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS1.5-56 F 孔径 A				S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS1.5-58 F 孔径 A				S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS1.5-60 F 孔径 A				S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS1.5-62 F 孔径 A				S1MA	S1MA	S1MA	S1MA	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	S1MA	S1MA	S1MA	S1MA
SS1.5-65 F 孔径 A				S1MA	S1MA	S1MA	S1MA	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	S1MA	S1MA	S1MA	S1MA
SS1.5-68 F 孔径 A				S1MA	S1MA	S1MA	S1MA	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	S1MA	S1MA	S1MA	S1MA
SS1.5-72 F 孔径 A				S1MA	S1MA	S1MA	S1MA	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	S1MA	S1MA	S1MA
SS1.5-76 F 孔径 A				S1MA	S1MA	S1MA	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	S1MA	S1MA	S1MA
SS1.5-84 F 孔径 A				S1MA	S1MA	S1MA	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	S1MA	S1MA	S1MA
SS1.5-88 F 孔径 A				S1MA	S1MA	S1MA	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	S1MA	S1MA	S1MA
SS1.5-95 F 孔径 A				S1MA	S1MA	S1MA	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	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

- (F 系列注意事项) ①因为是接单生产产品，所以发货日期在接单后实际工作日 2 天以内(订货日除外)，但由于是立即开始加工，因此不可取消。
 ②对应数量为 1 ~ 20 个为止。数量超过 20 个时，作为订做产品承接。
 ③联接零件和齿轮追加加工部位不做表面氧化处理。



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重复利用联接螺栓时，由于座面及螺纹面变粗糙而导致联接力下降，因此建议使用相同尺寸的新螺栓。



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热处理	—
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表面处理	追加工部以外表面氧化

* F 系列产品的精度相当于表记精度。

正齿轮

斜齿齿轮

内齿轮

齿条

& C
小齿轮

等径锥齿轮

锥齿轮

交错斜齿轮

蜗杆蜗轮

齿轮箱

其他产品

产品型号	齿数	轮毂径			齿宽	轮毂长	腹板厚 (H)	轮毂径 (I)
		B	C	D				
SS2-23	23	37	46	50	20	10	136	
SS2-24	24	38	48	52				
SS2-25	25	40	50	54				
SS2-26	26	42	52	56				
SS2-27	27	45	54	58				
SS2-28	28	45	56	60				
SS2-29	29	47	58	62				
SS2-30	30	50	60	64				
SS2-32	32	50	64	68				
SS2-34	34	50	68	72				
SS2-35	35	52	70	74				
SS2-36	36	55	72	76				
SS2-38	38	55	76	80				
SS2-40	40	55	80	84				
SS2-42	42	55	84	88				
SS2-44	44	55	88	92				
SS2-45	45	55	90	94				
SS2-46	46	55	92	96				
SS2-48	48	55	96	100				
SS2-50	50	55	100	104				
SS2-52	52	55	104	108				
SS2-54	54	55	108	112				
SS2-55	55	55	110	114				
SS2-56	56	55	112	116				
SS2-58	58	60	116	120				
SS2-60	60	60	120	124				
SS2-62	62	60	124	128				
SS2-64	64	60	128	132				
SS2-65	65	60	130	134				
SS2-66	66	60	132	136				
SS2-68	68	60	136	140				
SS2-70	70	60	140	144				
SS2-72	72	60	144	148				
SS2-75	75	60	150	154				
SS2-76	76	60	152	156				
SS2-80	80	60	160	164				
SS2-84	84	70	168	172				
SS2-85	85	70	170	174				
SS2-88	88	70	176	180				
SS2-90	90	70	180	184				
SS2-95	95	70	190	194				
SS2-100	100	70	200	204				
SS2-120	120	90	240	244				

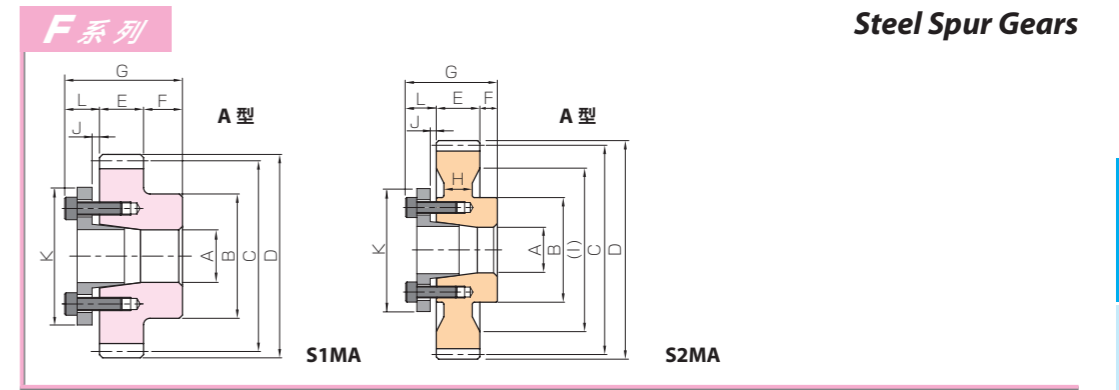
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F 系列的特点

- 联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
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安装方法和注意事项

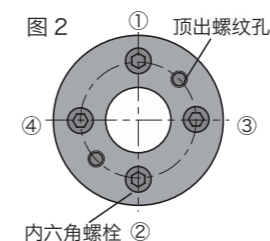
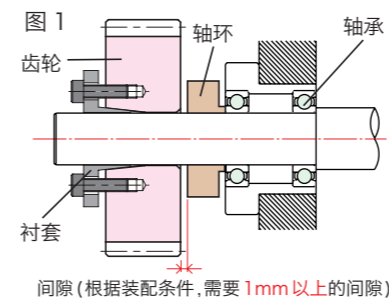
- ① 轴径的推荐公差为 h7。限度为 h8, 要减少跳动时推荐采用 h6。此外，轴径的表面粗糙度以 1.6a 为基准。
 - ② 请将联接部的孔和轴表面的垃圾、污渍、油污用稀释剂等擦拭干净，然后轻轻涂抹一层液压油 #68。涂抹钼类油或含添加剂的油会导致紧固转矩降低及打滑，请避免使用。
 - ③ 使衬套的肩部与齿轮紧贴的同时完全插入轴中进行联接。此外，齿轮的背面侧需要保留 1mm 以上的间隙，否则将无法拆卸。(图 1)
 - ④ 螺栓的紧固方法为使用转矩扳手沿对角线进行紧固。首先以规定转矩的 1/4 拧紧，接着以规定转矩的 1/2 拧紧，最后以规定转矩进行紧固。请勿在未装入轴中的状态下紧固，或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



F 系列请以产品型号 +F+ 孔径 +A 进行订购

轴孔径 A	* 表中颜色与 F 系列形状图的截面颜色相对应。																
	产品型号		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						
SS2-36 F 孔径 A	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				
SS2-40 F 孔径 A			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	S1MA	
SS2-45 F 孔径 A			S1MA	S1MA	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	S1MA	S1MA
SS2-48 F 孔径 A			S1MA	S1MA	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	S1MA	S1MA
SS2-52 F 孔径 A			S1MA	S1MA	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	S1MA	S1MA
SS2-55 F 孔径 A			S1MA	S1MA	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	S1MA	S1MA
SS2-58 F 孔径 A			S1MA	S1MA	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	S1MA	S1MA
SS2-62 F 孔径 A			S1MA	S1MA	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	S1MA	S1MA
SS2-65 F 孔径 A			S1MA	S1MA	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	S1MA	S1MA
SS2-68 F 孔径 A			S1MA	S1MA	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	S1MA	S1MA
SS2-72 F 孔径 A			S1MA	S1MA	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	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS2-76 F 孔径 A			S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	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	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS2-85 F 孔径 A			S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS2-88 F 孔径 A			S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS2-90 F 孔径 A			S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS2-95 F 孔径 A			S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS2-100 F 孔径 A			S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS2-120 F 孔径 A			S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA	S2MA

- (F 系列注意事项)
- ① 因为是接单生产产品，所以发货日期在接单后实际工作日 2 天以内 (订货日除外)，但由于是立即开始加工，因此不可取消。
 - ② 对应数量为 1 ~ 20 个为止。数量超过 20 个时，作为订做产品承接。
 - ③ 联接零件和齿轮追加加工部位不做表面氧化处理。



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 重复利用联接螺栓时，由于座面及螺纹面变粗糙而导致联接力下降，因此建议使用相同尺寸的新螺栓。

正齿轮

斜齿齿轮

内齿轮

齿条

& C
小齿轮

等径锥齿轮

锥齿轮

交错斜齿轮

蜗杆蜗轮

齿轮箱

其他产品



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	追加工部以外表面氧化

* F系列产品的精度相当于表记精度。

正齿轮

斜齿齿轮

内齿轮

齿条

& C
小齿条

等径锥齿轮

锥齿轮

交错斜齿轮

蜗杆蜗轮

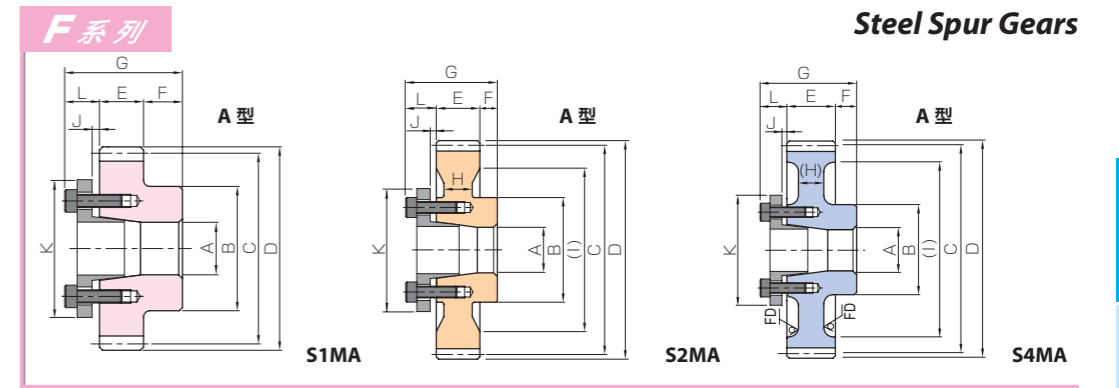
齿轮箱

其他产品

产品型号	齿数	轮径			齿宽	轮缘长	腹板厚	轮缘径
		B	C	D				
SS2.5-22	22	44	55	60	25	12		
SS2.5-23	23	46	57.5	62.5				
SS2.5-24	24	48	60	65				
SS2.5-25	25	50	62.5	67.5				
SS2.5-26	26	55	65	70				
SS2.5-27	27	60	67.5	72.5				
SS2.5-28	28	60	70	75				
SS2.5-29	29	62	72.5	77.5				
SS2.5-30	30	65	75	80				
SS2.5-32	32	70	80	85				
SS2.5-34	34	70	85	90				
SS2.5-35	35	70	87.5	92.5				
SS2.5-36	36	70	90	95				
SS2.5-38	38	70	95	100				
SS2.5-40	40	70	100	105				
SS2.5-42	42	70	105	110				
SS2.5-44	44	70	110	115				
SS2.5-45	45	70	112.5	117.5				
SS2.5-46	46	70	115	120				
SS2.5-48	48	70	120	125				
SS2.5-50	50	70	125	130				
SS2.5-52	52	70	130	135				
SS2.5-54	54	70	135	140				
SS2.5-55	55	70	137.5	142.5				
SS2.5-56	56	70	140	145				
SS2.5-58	58	70	145	150				
SS2.5-60	60	70	150	155				
SS2.5-62	62	80	155	160				
SS2.5-64	64	80	160	165				
SS2.5-65	65	80	162.5	167.5				
SS2.5-66	66	80	165	170				
SS2.5-68	68	80	170	175				
SS2.5-70	70	80	175	180				
SS2.5-72	72	80	180	185				
SS2.5-75	75	80	187.5	192.5				
SS2.5-76	76	80	190	195				
SS2.5-80	80	80	200	205				
SS2.5-90	90	90	225	230				

※ 各产品的容许转矩和侧隙请参考原产品的尺寸表。

轴孔径 A	衬套		间隙 J	全长 G	内六角螺栓		参考推力荷载 kN	参考滑动转矩 N·m	螺栓紧固转矩 N·m	衬套质量 (g)
	L	K			根数	尺寸				
15	12	37	3	49	4	M4×15	5.10	39	3.9	40
16							5.17	42		41
17							5.23	45		43
18							5.28	48		45
19							5.12	49		49
20	14	51	3	51	4	M5×18	9.68	97	7.8	71
22							9.98	110		71
25							9.90	124		81
28							10.0	141		84
30							9.89	149		93
32	19	71	3	56	6	M6×25	10.1	163	13.7	97
35							9.88	173		106
40							12.3	725		237



F系列请以产品型号 +F+ 孔径 +A 进行订购

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	S4MA

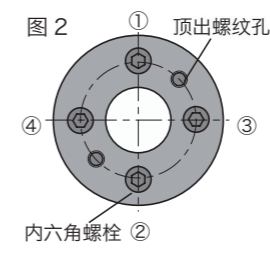
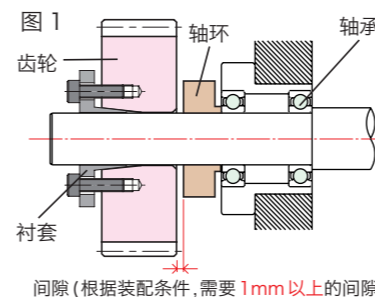
- (F 系列注意事项)
- ① 因为是接单生产产品，所以发货日期在接单后实际工作日 2 天以内 (订货日除外)，但由于是立即开始加工，因此不可取消。
 - ② 对应数量为 1 ~ 20 个为止。数量超过 20 个时，作为订做产品承接。
 - ③ 联接零件和齿轮追加加工部位不做表面氧化处理。

■ F 系列的特点

- 联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 请将联接部的孔和轴表面的垃圾、污渍、油污用稀释剂等擦拭干净，然后轻轻涂抹一层液压油 #68。涂抹铅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联接。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，由于联接部的接触面积减少，传动力将下降 15 ~ 20%。



■ 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 重复利用联接螺栓时，由于座面及螺纹面变粗糙而导致联接力下降，因此建议使用相同尺寸的新螺栓。



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	追加工部以外表面氧化

* F系列产品的精度相当于表记精度。

产品型号	齿数	轮毂径			齿宽	轮毂长	腹板厚	轮毂径
		B	C	D				
SS3-19	19	45	57	63	30	15	—	
SS3-20	20	50	60	66				
SS3-21	21	52	63	69				
SS3-22	22	54	66	72				
SS3-23	23	56	69	75				
SS3-24	24	58	72	78				
SS3-25	25	60	75	81				
SS3-26	26	65	78	84				
SS3-27	27	65	81	87				
SS3-28	28	70	84	90				
SS3-29	29	70	87	93				
SS3-30	30	75	90	96				
SS3-32	32	75	96	102				
SS3-34	34	80	102	108				
SS3-35	35	80	105	111				
SS3-36	36	80	108	114				
SS3-38	38	80	114	120				
SS3-40	40	80	120	126				
SS3-42	42	80	126	132				
SS3-44	44	80	132	138				
SS3-45	45	80	135	141				
SS3-46	46	80	138	144				
SS3-48	48	80	144	150				
SS3-50	50	80	150	156				
SS3-52	52	80	156	162				
SS3-54	54	80	162	168				
SS3-55	55	80	165	171				
SS3-56	56	80	168	174				
SS3-58	58	80	174	180				
SS3-60	60	80	180	186				
SS3-62	62	80	186	192				
SS3-64	64	80	192	198				
SS3-65	65	80	195	201				
SS3-66	66	90	198	204				
SS3-68	68	90	204	210				
SS3-70	70	90	210	216				
SS3-72	72	90	216	222				
SS3-75	75	90	225	231				
SS3-76	76	90	228	234				
SS3-80	80	90	240	246				

轴孔径 A	衬套		间隙 J	全长 G	内六角螺栓		参考推力载荷 kN	参考滑动转矩 N·m	螺栓紧固转矩 N·m	衬套质量 (g)
	L	K			根数	尺寸				
15	12	37	3	57	4	M4×15	5.10	39	3.9	40
16										
17										
18										
19										
20										
22										
25	14	51	3	59	4	M5×18	9.90	124	7.8	81
28										
30										
32										
35										
40										
19	71	64	6	M6×25	12.3	725	13.7	237		



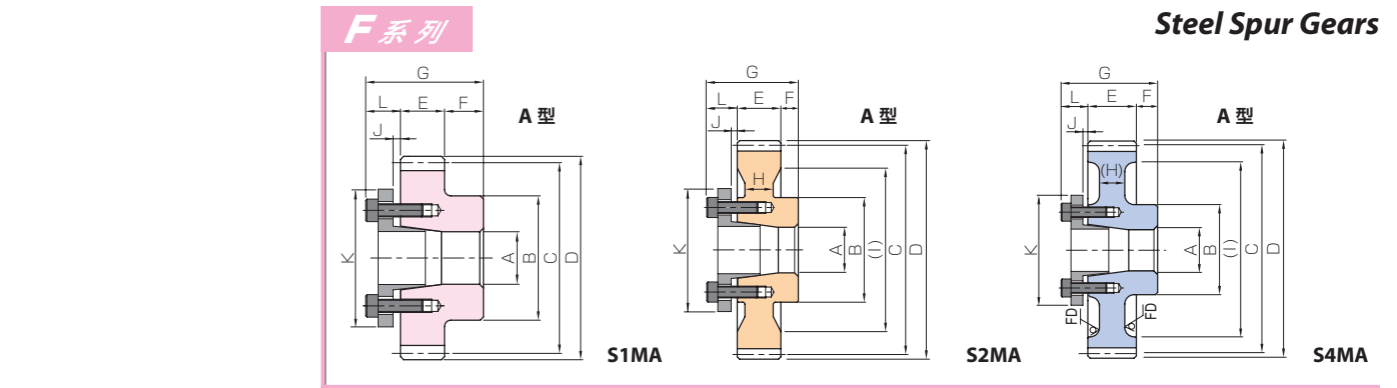
※ 各产品的容许转矩和侧隙请参考原产品的尺寸表。

F系列的特点

- 联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

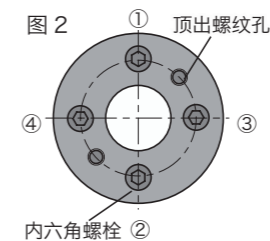
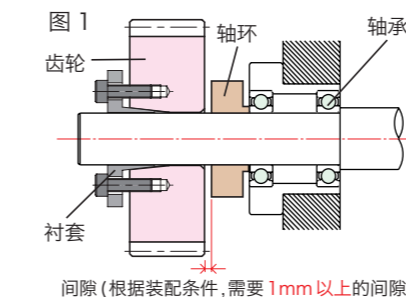
- ① 轴径的推荐公差为 h7。限度为 h8，要减少跳动时推荐采用 h6。此外，轴径的表面粗糙度以 1.6a 为基准。
- ② 请将联接部的孔和轴表面的垃圾、污渍、油分用稀释剂等擦拭干净，然后轻轻涂抹一层液压油 #68。涂抹钼类油或含添加剂的油会导致紧固转矩降低及打滑，请避免使用。
- ③ 使衬套的肩部与齿轮紧贴的同时完全插入轴中进行联接。此外，齿轮的背面侧需要保留 1mm 以上的间隙，否则将无法拆卸。(图 1)
- ④ 螺栓的紧固方法为使用转矩扳手沿对角线进行紧固。首先以规定转矩的 1/4 拧紧，接着以规定转矩的 1/2 拧紧，最后以规定转矩进行紧固。请勿在未装入轴中的状态下紧固，或将螺栓从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



F系列请以产品型号 +F+ 孔径 +A 进行订购

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	
SS3-30 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS3-32 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	
SS3-34 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-35 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-36 F 孔径 A						S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-38 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-40 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-42 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-44 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-45 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-46 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-48 F 孔径 A								S1MA	S1MA	S1MA	S1MA	S1MA	S1MA
SS3-50 F 孔径 A								S4MA	S4MA	S4MA	S4MA	S4MA	S4MA
SS3-52 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-54 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-55 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-56 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-58 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-60 F 孔径 A								S4MA	S4MA	S4MA	S4MA	S4MA	S4MA
SS3-62 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-64 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-65 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-66 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-68 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-70 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-72 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-75 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-76 F 孔径 A								S2MA	S2MA	S2MA	S2MA	S2MA	S2MA
SS3-80 F 孔径 A								S4MA	S4MA	S4MA	S4MA	S4MA	S4MA

- (F系列注意事项) ① 因为是接单生产产品，所以发货日期在接单后实际工作日 2 天以内 (订货日除外)，但由于是立即开始加工，因此不可取消。
 ② 对应数量为 1 ~ 20 个为止。数量超过 20 个时，作为订做产品承接。
 ③ 联接零件和齿轮追加加工部位不做表面氧化处理。



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 重复利用联接螺栓时，由于座面及螺纹面变粗糙而导致联接力下降，因此建议使用相同尺寸的新螺栓。