

# Shafts

## Keyway



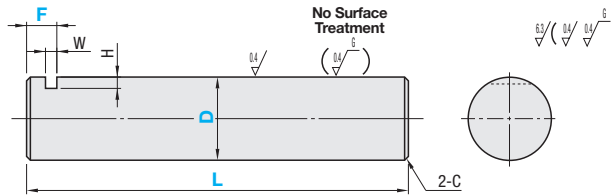
RoHS 10

- Features of Low Temp. Black Chrome Plating
- P128
- L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness P.111

Type			Material	Hardness	Surface Treatment
D Tol. g6	D Tol. h5	D Tol. f8			
SFAK	SFUK	-	SUJ2 Equivalent		
SSFAK	SSFUK	-	SUS440C or 13Cr stainless	Effective Hardened Depth of Induction Hardening P.112	
PSFAK	PSFUK	-	SUJ2 Equivalent	SUJ2 Equivalent 58HRC~	Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 5μ or More ~
PSSFAK	PSSFUK	-	SUS440C or 13Cr stainless	SUS440C or 13Cr stainless 56HRC~	Low Temp. Black Chrome Plating
RSFAK	-	-	SUJ2 Equivalent		
-	-	PSFGK	S45C Equivalent		Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 10μ or More ~
-	-	PSSFGK	SUS304		

D Tol.			
D	g6	h5	f8
6	-0.004 -0.012	0 -0.005	-0.010 -0.028
8	-0.005 -0.014	0 -0.006	-0.013 -0.035
10			
12			
13	-0.006 -0.017	0 -0.008	-0.016 -0.043
15			
16			
18			
20	-0.007 -0.020	0 -0.009	-0.020 -0.053
25			
30			
35	-0.009 -0.025	0 -0.011	-0.025 -0.064
40			
50			



Part Number Type	D	1mm Increment		W	H	C
		L	F			
(D Tolerance g6) (D Tolerance h5) SFAK SFUK SSFAK SSFUK PSFAK PSFUK PSSFAK PSSFUK RSFAK	6	20~600	5 ≤ F ≤ L/2	3.1	2	0.5 or Less
	8	20~800				
	10	20~800				
	12	20~1000				
	13	25~1000				
	15	25~1200				
	16	30~1200				
	18	30~1200				
	20	30~1200				
	25	35~1200				
(D Tolerance f8) PSFGK PSSFGK	30	35~1500	7 ≤ F ≤ L/2	5.1	6	1.0 or Less
	35	35~1500				
	40	50~1500				
	40	50~1500				
	50	65~1500				

Ordering Example Part Number - L - F  
SFAK16 - 265 - F25

Alterations Part Number - L - F - (LKC, SC)  
SFAK16 - 625 - F25 - LKC

Alterations	Alteration to L dimension tolerance	Wrench Flats																																				
Code	LKC	SC																																				
Spec.	Changes L tolerance. [Ordering Code] LKC L < 200 → L ± 0.03 200 ≤ L < 500 → L ± 0.05 L ≥ 500 → L ± 0.1 L dimensions can be specified in 0.1mm increment for LKC.	Adds wrench flats. [Ordering Code] SC5 SC = 1mm Increment SC + φ1 ≤ L SC ≥ 0 <table border="1"> <thead> <tr> <th>D</th> <th>W</th> <th>φ1</th> </tr> </thead> <tbody> <tr><td>6</td><td>5</td><td rowspan="5">8</td></tr> <tr><td>8</td><td>7</td></tr> <tr><td>10</td><td>8</td></tr> <tr><td>12</td><td>10</td></tr> <tr><td>13</td><td>11</td></tr> <tr><td>15</td><td>13</td><td rowspan="5">10</td></tr> <tr><td>16</td><td>14</td></tr> <tr><td>18</td><td>16</td></tr> <tr><td>20</td><td>17</td></tr> <tr><td>25</td><td>22</td></tr> <tr><td>30</td><td>27</td><td rowspan="5">15</td></tr> <tr><td>35</td><td>30</td></tr> <tr><td>40</td><td>36</td></tr> <tr><td>40</td><td>36</td></tr> <tr><td>50</td><td>41</td></tr> </tbody> </table>	D	W	φ1	6	5	8	8	7	10	8	12	10	13	11	15	13	10	16	14	18	16	20	17	25	22	30	27	15	35	30	40	36	40	36	50	41
D	W	φ1																																				
6	5	8																																				
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40	36																																					
50	41																																					

Alterations may lower hardness. see P.112  
When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm. P.114

Part Number Type	D	Unit Price											
		Min. L	L51	L101	L151	L201	L301	L401	L501	L601	L801	L1001	L1201
SFAK SFUK	6												
	8												
	10												
	12												
	13												
	15,16												
	18,20												
	25												
	30												
	35												
SSFAK SSFUK	6												
	8												
	10												
	12												
	13												
	15,16												
	18,20												
	25												
	30												
	35												
PSFAK PSFUK	6												
	8												
	10												
	12												
	13												
	15,16												
	18,20												
	25												
	30												
	35												
PSSFAK PSSFUK	6												
	8												
	10												
	12,13												
	15,16												
	18,20												
	25												
	30												
	35												
	40												
RSFAK	6												
	8												
	10												
	12												
	13												
	15												
	16												
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	20												
	25												

Part Number Type	D	Unit Price											
		Min. L	L101	L201	L401	L601	L801	L1001	L1201	L1501			
PSFGK	6												
	8												
	10												
	12												
	13												
	15,16												
	18												
	20												
	25												
	30												
PSSFGK	6												
	8												
	10												
	12												
	13												
	15,16												
	18,20												
	25												
	30												
	35												

