

# Shafts - Standard / Precision - Both Ends Tapped

For Shafts with Wrench Flats and Cross-Drilled Hole **P.109**



Precision Type	Type				Material	Hardness	Surface Treatment
	Standard		Precision				
D Tol. g6	D Tol. g6	D Tol. h5	D Tol. f8				
VFJW	SFJW	SFUW	-	52100 Bearing Steel	Effective Hardened	-	
VSFJW	SSFJW	SSFUW	-	440C Stainless Steel	Depth of Induction	-	
VPFJW	PSFJW	PSSFUW	-	52100 Bearing Steel	Hardened <b>P98</b>	-	
VPSFJW	PSSFJW	PSSFUW	-	440C Stainless Steel	58HRC-56HRC	-	
VRJW	RSFJW	-	-	52100 Bearing Steel	440C Stainless Steel	56HRC	Low Temp. Black Chrome Plating
-	-	-	PSFGW	1045 Carbon Steel	-	-	Hard Chrome Plating
-	-	-	PSSFGW	304 Stainless Steel	-	-	Plating Hardness: HV750 - Plating Thickness: 10µ or More

  

D Tol.			
D	g6	h5	f8
4	-0.004	0	-
5	-0.012	-0.005	-0.010
6	-	-	-0.028
8	-0.005	0	-0.013
10	-0.014	-0.006	-0.035
12	-	-	-
13	-0.006	0	-0.016
15	-0.017	-0.008	-0.043
16	-	-	-
18	-	-	-
20	-0.007	0	-0.020
25	-0.020	-0.009	-0.053
30	-	-	-
35	-0.009	0	-0.025
40	-0.025	-0.011	-0.064
50	-	-	-

  

No Surface Treatment on Machined Features

Precision Type 0.03 A  
Standard Type 0.2 A

Ⓛ requires Mx2+Nx2≤L. Ⓢ When Mx2.5+4+Nx2.5+4≥L, tap pilot holes may go through.

Part Number Type	D	L 1mm Increment	M (Coarse Thread), N (Coarse Thread)												C			
			2	2.6	3	3	4	5	6	8	10	12	16	20				
Precision Type (D Tolerance g6) VFJW VSFJW VPFJW VPSFJW VRJW	4	25-200	2															0.2 or Less
	5	25-300	2.6	3														0.5 or Less
	6	25-300	3	4	5													
	8	25-300	3	4	5	6	8											
	10	25-350	3	4	5	6	8	10										
	12	25-350	4	5	6	8	10	12										
	13	25-350	4	5	6	8	10	12										
	15	25-350	4	5	6	8	10	12										
	16	25-350	4	5	6	8	10	12										
	18	25-350	4	5	6	8	10	12										
20	30-450	4	5	6	8	10	12	16										
25	30-450	4	5	6	8	10	12	16	20									
30	30-450	6	8	10	12	16	20											

Part Number Type	D	L 1mm Increment	M (Coarse Thread), N (Coarse Thread)												C			
			2	2.6	3	3	4	5	6	8	10	12	16	20				
Standard Type (D Tolerance g6) SFJW SSFJW PSFJW PSSFJW RSFJW (D≤30, L≤500)	4	20-300	2															0.2 or Less
	5	20-400	2.6	3														0.5 or Less
	6	20-600	3	4	5													
	8	20-800	3	4	5	6	8											
	10	20-800	3	4	5	6	8	10										
	12	20-1000	4	5	6	8	10	12										
	13	25-1000	4	5	6	8	10	12										
	15	25-1000	4	5	6	8	10	12										
	16	30-1200	4	5	6	8	10	12										
	18	30-1200	4	5	6	8	10	12										
20	30-1200	4	5	6	8	10	12	16										
25	35-1200	4	5	6	8	10	12	16	20									
30	35-1500	6	8	10	12	16	20											
35	35-1500	8	10	12	16	20	24											
40	50-1500	10	12	16	20	24	30											
50	65-1500	12	16	20	24	30												

Price [Configure Online](#)

Part Number Type	D	Unit Price											
		Min. L	L51	L101	L151	L201	L301	L401	L501	L601	L801	L1001	L1201
SFJW SFUW	4	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-	-
	12, 13	-	-	-	-	-	-	-	-	-	-	-	-
	15, 16	-	-	-	-	-	-	-	-	-	-	-	-
	18, 20	-	-	-	-	-	-	-	-	-	-	-	-
	25	-	-	-	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-	-	-	-	
40	-	-	-	-	-	-	-	-	-	-	-	-	
50	-	-	-	-	-	-	-	-	-	-	-	-	

Part Number Type	D	Unit Price											
		Min. L	L51	L101	L151	L201	L301	L401	L501	L601	L801	L1001	L1201
PSSFJW PSSFUW	4	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-	-
	12, 13	-	-	-	-	-	-	-	-	-	-	-	-
	15, 16	-	-	-	-	-	-	-	-	-	-	-	-
	18, 20	-	-	-	-	-	-	-	-	-	-	-	-
	25	-	-	-	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-	-	-	-	
40	-	-	-	-	-	-	-	-	-	-	-	-	
50	-	-	-	-	-	-	-	-	-	-	-	-	

Part Number Type	D	Unit Price						
		Min. L	L51	L101	L151	L201	L301	L401
RSFJW	4	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-
	13	-	-	-	-	-	-	-
	15	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-
	18	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	
25	-	-	-	-	-	-	-	
30	-	-	-	-	-	-	-	

Part Number Type	D	Unit Price							
		Min. L	L101	L201	L401	L601	L801	L1001	L1201
PSFGW	6	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-
	12, 13	-	-	-	-	-	-	-	-
	15, 16	-	-	-	-	-	-	-	-
	18, 20	-	-	-	-	-	-	-	-
	25	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-
	35	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	

Alterations [Part Number](#) - L - M (MSC) - N (NSC) - (LKC, etc.)  
SFJW30 - 500 - M8 - N10 - LKC

Alterations	Code	Spec.	Price Adder																																																
	LKC	Alteration to L Dimension Tolerance (Ordering Code) LKC (Application Notes) Applicable when L=200 or less for precision type. L dimensions can be specified in 0.1mm increment for LKC. Ⓛ L<200 ...L±0.03 200≤L<500 ...L±0.05 L≥500 ...L±0.1																																																	
	WSC	Wrench Flats at Two Locations (Ordering Code) WSC12-X8 (Application Notes) Applicable to D=6 or more WSC, X=1mm Increment Ⓢ WSC+X+δ1: X2<L Ⓢ WSC (X)≥0 Ⓢ Orientation between set screw flats is random. Ⓢ Not available in combination with FC.	<table border="1"><tr><th>D</th><th>W</th><th>δ1</th><th>D</th><th>W</th><th>δ1</th></tr><tr><td>6</td><td>5</td><td>18</td><td>16</td><td>10</td><td>10</td></tr><tr><td>8</td><td>7</td><td>20</td><td>17</td><td>10</td><td>10</td></tr><tr><td>10</td><td>8</td><td>25</td><td>22</td><td>10</td><td>10</td></tr><tr><td>12</td><td>10</td><td>30</td><td>27</td><td>15</td><td>15</td></tr><tr><td>13</td><td>11</td><td>35</td><td>30</td><td>15</td><td>15</td></tr><tr><td>15</td><td>13</td><td>40</td><td>36</td><td>20</td><td>20</td></tr><tr><td>16</td><td>14</td><td>50</td><td>41</td><td>20</td><td>20</td></tr></table>	D	W	δ1	D	W	δ1	6	5	18	16	10	10	8	7	20	17	10	10	10	8	25	22	10	10	12	10	30	27	15	15	13	11	35	30	15	15	15	13	40	36	20	20	16	14	50	41	20	20
D	W	δ1	D	W	δ1																																														
6	5	18	16	10	10																																														
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10	8	25	22	10	10																																														
12	10	30	27	15	15																																														
13	11	35	30	15	15																																														
15	13	40	36	20	20																																														
16	14	50	41	20	20																																														
	FC	Set Screw Flat at One Location (Ordering Code) FC10-A8 (Application Notes) Ⓢ Not applicable to precision shafts. FC, A=1mm Increment Ⓢ FC≤3xD Ⓢ When 1.5xD<FC, FC≤L/2 Ⓢ E=0 or A≥2 Ⓢ Not available in combination with WFC.	<table border="1"><tr><th>D</th><th>h</th></tr><tr><td>4-5</td><td>0.5</td></tr><tr><td>6-18</td><td>1</td></tr><tr><td>20-40</td><td>2</td></tr><tr><td>50</td><td>3</td></tr></table>	D	h	4-5	0.5	6-18	1	20-40	2	50	3																																						
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50	3																																																		
	WFC	Set Screw Flats at Two Locations (Ordering Code) WFC8-A8-E2 (Application Notes) Ⓢ Not applicable to precision shafts. FC, WFC, A, E=1mm Increment Ⓢ WFC≤3xD Ⓢ When 1.5xD<WFC, 2WFC≤L/2 Ⓢ A (E)=0 or A (E)≥2 Ⓢ Orientation between set screw flats is random. Ⓢ Not available in combination with FC.	<table border="1"><tr><th>D</th><th>h</th></tr><tr><td>4-5</td><td>0.5</td></tr><tr><td>6-18</td><td>1</td></tr><tr><td>20-40</td><td>2</td></tr><tr><td>50</td><td>3</td></tr></table>	D	h	4-5	0.5	6-18	1	20-40	2	50	3																																						
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Ordering Example [Part Number](#) - L - M - N  
VFJW8 - 200 - M4 - N4  
SSFJW20 - 500 - M6 - N10

Part Number Type	D	Unit Price				
		Min. L	L51	L101	L201	L301
VFJW	4	-	-	-	-	-
	5	-	-	-	-	-
	6	-	-	-	-	-
	8	-	-	-	-	-
	10	-	-	-	-	-
	12	-	-	-	-	-
	13	-	-	-	-	-
	15, 16	-	-	-	-	-
	18	-	-	-	-	-
	20	-	-	-	-	-
25	-	-	-	-	-	
30	-	-	-	-	-	

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

Part Number Type	D	Unit Price				
		Min. L	L51	L101	L201	L301
VRJW	4	-	-	-	-	-
	5	-	-	-	-	-
	6	-	-	-	-	-
	8	-	-	-	-	-
	10	-	-	-	-	-
	12	-	-	-	-	-
	13	-	-	-	-	-
	15, 16	-	-			