

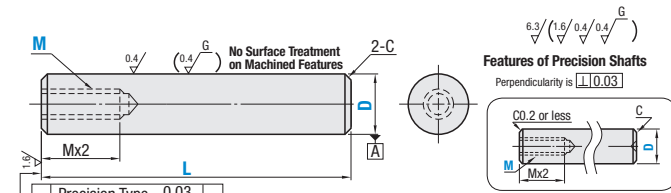
Shafts – Standard & Precision Type / One End Tapped



RoHS 10

- ⓘ Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10 mm). P.199
- ⓘ Full Length Hardness Guaranteed Shafts P.212.
- ⓘ Circularity, Straightness, Perpendicularity and Changes in Hardness P.198.
- ⓘ Shafts may have centering holes at end faces.
- ⓘ Features of Low Temp. Black Chrome Plating P.213.
- ⓘ For Shafts with wrench flats and cross-drilled holes, please see P.206.

Type				Material	Hardness	Surface Treatment
Precision Type	Standard					
D Tolerance g6	D Tol. h5	D Tol. f8				
VFJT	SFJT	SFUT	—	52100 Bearing Steel Equivalent	Effective Hardened Depth of Induction Hardened P.199	—
VSFJT	SSFJT	SSFUT	—	SUS440C (13Cr) Stainless Steel Equivalent		
VPFJT	PSFJT	PSFUT	—	52100 Bearing Steel Equivalent	52100 Bearing Steel Equivalent 58 HRC min.	Hard Chrome Plating Plating Hardness: HV 750~ Plating Thickness 5 μ or More
VPSFJT	PSSFJT	PSSFUT	—	SUS440C (13Cr) Stainless Steel Equivalent		
VRJT	RSFJT	—	—	52100 Bearing Steel Equivalent	—	Low Temperature Black Chrome Plating
—	—	—	PSFGT	1045 Carbon Steel Equivalent		
—	—	—	PSSFGT	304 Stainless Steel	—	Hard Chrome Plating Plating Hardness: HV 750~ Plating Thickness: 10 μ or More



D	D Tolerance		
	g6	h5	f8
4	-0.004	0	—
5	-0.012	-0.005	-0.010
6	-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	—	—	—

Part Number Type	D	L 1 mm Increment	Selection M (Coarse Thread)								C								
			2	2.6	3	3	4	5	6	8									
Precision Type D Tolerance g6 VFJT VSFJT VPFJT VPSFJT VRJT	4	25-200	2								0.2 or Less								
	5	25-300		2.6	3						0.5 or Less								
	6	20-350			3														
	8	20-500				3	4	5											
	10	20-500					3	4	5	6									
	12	20-500						4	5	6		8							
	13	20-500							4	5		6	8						
	15	20-500							4	5		6	8	10					
	16	20-500								4		5	6	8	10				
	18	20-500										4	5	6	8	10	12		
	20	25-500											4	5	6	8	10	12	
	25	25-500											4	5	6	8	10	12	16
30	25-500													6	8	10	12	16	20

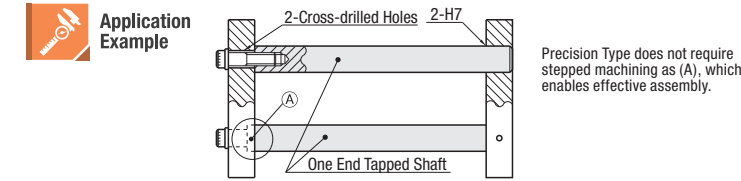
- ⓘ Total length requires $Mx2 \leq L$.
- ⓘ When $Mx2.5 \leq L$, the pilot hole for tapping becomes a through hole.

Part Number Type	D	L 1 mm Increment	Selection M (Coarse Thread)								C								
			2	2.6	3	3	4	5	6	8									
Standard Type D Tolerance g6 SFJT SSFJT PSFJT PSSFJT RSFJT D \leq 30, L \leq 500	4	20-300	2								0.5 or Less								
	5	20-400		2.6	3														
	6	20(15)-900			3														
	8	20(15)-1100				3	4	5											
	10	20(15)-1200					3	4	5	6									
	12	20(15)-1400						(3)	4	5		6	8						
	13	25(15)-1400						(3)	4	5		6	8						
	15	25(15)-1400						(3)	4	5		6	8	10					
	16	30(15)-1400							4	5		6	8	10					
	18	30-1400								4		5	6	8	10	12			
	20	30-1400									4	5	6	8	10	12			
	25	35-1400										4	5	6	8	10	12	16	
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

- ⓘ L () and M () dimensions are applicable only for D diameter tolerance with g6.
- ⓘ Total length requires $Mx2 \leq L$.
- ⓘ When $Mx2.5 \leq L$, the pilot hole for tapping becomes a through hole.

Part Number Example

Part Number - L - M
 VFJT8 - 200 - M4
 RSFJT20 - 325 - M8



Part Number Alterations

Part Number - L - M (MSC) - (LKC...etc.)
 SFJT30 - 250 - M12 - LKC

- ⓘ Express T service is not available.
- ⓘ Keyway machining (KC) only.

Alteration Details P.200

Alterations	Code	Spec.
	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 0.1 increments for LKC. ⓘ L<200 → L±0.03 200≤L<500 → L±0.05 L≥500 → L±0.1
	FC	Set Screw Flat at One Location Ordering Code: FC10-E8 Application Notes: ⓧ Not applicable to precision shafts. FC, E = 1 mm increment ⓘ FC≤3xD ⓘ When 1.5xD<FC, FC≤L/2 ⓘ E=0 or E≥2 ⓧ Cannot be used with WFC
	WFC	Set Screw Flats at Two Locations Ordering Code: WFC8-A8-E4 Application Notes: ⓧ Not applicable to precision shafts. WFC, A, E = 1 mm increment ⓘ WFC≤3xD ⓘ When 1.5xD<FC, 2WFC≤L/2 ⓘ A (E)=0 or A (E)≥2 ⓧ Orientation between set screw flats is random. Cannot be combined with FC.

Alterations	Code	Spec.
	MSC	Change to Fine Tapped Thread Ordering Code: MSC14 (M is changed to MSC) Application Notes: Applicable for D=12 or more
	RC	90° Set Screw Flat at One Location Ordering Code: RC10 Application Notes: Applicable for D=10 to 30 ⓧ Not applicable to precision shafts. ⓧ Not available in combination with WRC.
	WRC	90° Set Screw Flats at Two Locations Ordering Code: WRC10-Y10 Application Notes: Applicable for D=10 to 30 ⓧ Not applicable to precision shafts. ⓧ Not available in combination with RC. ⓧ Orientation between set screw flats is random.
	MD	Change the effective length of tapped part to Mx3. Ordering Code: MD6 (M is changed to MD) Application Notes: Only applicable to D=6-30 and M=6-20 ⓘ One End Tapped: MDx3.5+4≤L
	KC WKC	Keyway Ordering Code: KC10-G10 WKC10-C8-KC10-G10 Application Notes: Only applicable to D=12, 16, 20, 25 and 30.

- ⓘ Please see Shaft Alteration Overview for details if provided. P.200
- ⓘ When selecting multiple alteration additions, the distance between machined areas should be greater than 2 mm. P.201
- ⓘ Alterations may lower hardness. See P.199