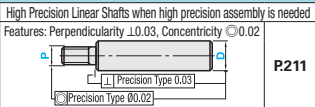


Shafts
One End Threaded



- For High Precision Linear Shafts with high perpendicular precision of the shaft end (0.03), see P.211.
- For One End Threaded with O.D. same as Shaft O.D., see P.161.
- For Shafts with Wrench Flats and Cross-Drilled Hole, see P.165.

Technical drawing of a shaft with dimensions and tolerances. Features include Perpendicularity 0.03, Concentricity 0.02, and Precision Type 0.03. Part number P.211 is indicated.

High Precision Linear Shafts when high precision assembly is needed
Features: Perpendicularity 0.03, Concentricity 0.02

P.211

RoHS 10

For High Precision Linear Shafts with high perpendicular precision of the shaft end (0.03), see P.211.

For One End Threaded with O.D. same as Shaft O.D., see P.161.

For Shafts with Wrench Flats and Cross-Drilled Hole, see P.165.

Part Number		1mm Increment		P		(Y)	R	C	Coarse Thread Dimension	
Type	D	L	F	B	Selection	Max.			M	pitch
(D Tolerance g6) SFAN SSFAN PSFAN PSSFAN RSFAN (D≤30, L≤500)	4	25~ 298	2≤F≤P×5		3	300	0.2 or Less	0.2 or Less	3	0.5
	5	25~ 398			3 4	400			4	0.7
	6	25~ 598			3 4 5	600			5	0.9
	8	25~ 798			3 4 5 6	800			6	1.25
	10	25~ 798			4 5 6 8	800			10	1.5
	12	25~ 998			5 6 8 10	1000			12	1.75
	13	25~ 998			5 6 8 10 12	1000			16	2.0
	15	25~ 998			5 6 8 10 12	1000			20	2.5
	16	25~1198			5 6 8 10 12	1200			24	3.0
	18	25~1198			5 6 8 10 12 16	1200			30	3.5
	20	25~1198			6 8 10 12 16	1200				
	25	25~1198			8 10 12 16 20 24	1200				
	30	25~1498			8 10 12 16 20 24	1500				
	35	25~1498			10 12 16 20 24 30	1500				
	40	25~1498			12 16 20 24 30	1500				
50	25~1498	16 20 24 30	1500							
(D Tolerance f8) PSFGN (D≥6) PSSFGN (D≥6)	4	25~ 298	2≤F≤P×5	(When P≤6) B≤F-2	3	300	0.3 or Less	0.5 or Less	3	0.5
	5	25~ 398			3 4	400			4	0.7
	6	25~ 598			3 4 5	600			5	0.9
	8	25~ 798			3 4 5 6	800			6	1.25
	10	25~ 798			4 5 6 8	800			10	1.5
	12	25~ 998			5 6 8 10	1000			12	1.75
	13	25~ 998			5 6 8 10 12	1000			16	2.0
	15	25~ 998			5 6 8 10 12	1000			20	2.5
	16	25~1198			5 6 8 10 12	1200			24	3.0
	18	25~1198			5 6 8 10 12 16	1200			30	3.5
	20	25~1198			6 8 10 12 16	1200				
	25	25~1198			8 10 12 16 20 24	1200				
	30	25~1498			8 10 12 16 20 24	1500				
	35	25~1498			10 12 16 20 24 30	1500				
	40	25~1498			12 16 20 24 30	1500				
50	25~1498	16 20 24 30	1500							
(D Tolerance f8) PSFGN (D≥6) PSSFGN (D≥6)	4	25~ 298	2≤F≤P×5	(When P≥8, 10) B≤F-3	3	300	0.3 or Less	0.5 or Less	3	0.5
	5	25~ 398			3 4	400			4	0.7
	6	25~ 598			3 4 5	600			5	0.9
	8	25~ 798			3 4 5 6	800			6	1.25
	10	25~ 798			4 5 6 8	800			10	1.5
	12	25~ 998			5 6 8 10	1000			12	1.75
	13	25~ 998			5 6 8 10 12	1000			16	2.0
	15	25~ 998			5 6 8 10 12	1000			20	2.5
	16	25~1198			5 6 8 10 12	1200			24	3.0
	18	25~1198			5 6 8 10 12 16	1200			30	3.5
	20	25~1198			6 8 10 12 16	1200				
	25	25~1198			8 10 12 16 20 24	1200				
	30	25~1498			8 10 12 16 20 24	1500				
	35	25~1498			10 12 16 20 24 30	1500				
	40	25~1498			12 16 20 24 30	1500				
50	25~1498	16 20 24 30	1500							
(D Tolerance f8) PSFGN (D≥6) PSSFGN (D≥6)	4	25~ 298	2≤F≤P×5	(When P≥12) B≤F-5	3	300	0.3 or Less	0.5 or Less	3	0.5
	5	25~ 398			3 4	400			4	0.7
	6	25~ 598			3 4 5	600			5	0.9
	8	25~ 798			3 4 5 6	800			6	1.25
	10	25~ 798			4 5 6 8	800			10	1.5
	12	25~ 998			5 6 8 10	1000			12	1.75
	13	25~ 998			5 6 8 10 12	1000			16	2.0
	15	25~ 998			5 6 8 10 12	1000			20	2.5
	16	25~1198			5 6 8 10 12	1200			24	3.0
	18	25~1198			5 6 8 10 12 16	1200			30	3.5
	20	25~1198			6 8 10 12 16	1200				
	25	25~1198			8 10 12 16 20 24	1200				
	30	25~1498			8 10 12 16 20 24	1500				
	35	25~1498			10 12 16 20 24 30	1500				
	40	25~1498			12 16 20 24 30	1500				
50	25~1498	16 20 24 30	1500							
(D Tolerance f8) PSFGN (D≥6) PSSFGN (D≥6)	4	25~ 298	2≤F≤P×5	⚙️B≥Pitch×3	3	300	0.5 or Less	1.0 or Less	3	0.5
	5	25~ 398			3 4	400			4	0.7
	6	25~ 598			3 4 5	600			5	0.9
	8	25~ 798			3 4 5 6	800			6	1.25
	10	25~ 798			4 5 6 8	800			10	1.5
	12	25~ 998			5 6 8 10	1000			12	1.75
	13	25~ 998			5 6 8 10 12	1000			16	2.0
	15	25~ 998			5 6 8 10 12	1000			20	2.5
	16	25~1198			5 6 8 10 12	1200			24	3.0
	18	25~1198			5 6 8 10 12 16	1200			30	3.5
	20	25~1198			6 8 10 12 16	1200				
	25	25~1198			8 10 12 16 20 24	1200				
	30	25~1498			8 10 12 16 20 24	1500				
	35	25~1498			10 12 16 20 24 30	1500				
	40	25~1498			12 16 20 24 30	1500				
50	25~1498	16 20 24 30	1500							

Ordering Example

Part Number - L - F - B - P

SFAN12 - 500 - F20 - B15 - P6

SFUN8 - 150 - F20 - B15 - P6

Alterations

Part Number - L - F - B - P (PMC, PMS) - (LKC~etc.)

SFAN30 - 250 - F40 - B30 - P10 - LKC

Alterations	Code	Spec.
	LKC	Alteration to L dimension tolerance Ordering Code LKC 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 Not applicable when D-P≤2.
	FC	Set Screw Flat at One Location Ordering Code FC10-E8 Application Notes FC, E=1mm Increment FC≤3xD When 1.5xD<FC, FC≤L/2 E=0 or E≥2 Not available in combination with WFC.
	WFC	Set Screw Flats at Two Locations Ordering Code WFC8-A8-E4 Application Notes 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 not coplanar. Not available in combination with FC.

Alterations	Code	Spec.
	RC	90-deg. Set Screw Flat at One Location Ordering Code RC10 Application Notes Only applicable to D=10 ~ 30. Not available in combination with WRC.
	WRC	90-deg. Set Screw Flats at Two Locations Ordering Code WRC10-Y10 Application Notes Only applicable to D=10 ~ 30. Not available in combination with RC. Orientation between two set screw flats is not coplanar.
	PMC PMS	Change to Fine Thread Ordering Code PMC14 (P is changed to PMC) PMS14 (P is changed to PMSC)
	KC	Keyway is added at one location. Ordering Code KC10-G10 Application Notes Only applicable to D=12, 16, 20, 25 and 30.

- Please see Shaft Alteration Overview for details if provided. P.113
- When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm.
- The distance between wrench flats and cross-drilled holes should be greater than 2mm for alterations.
- Alterations may lower hardness. See P.112

Part Number		Unit Price																			
Type	D	Min. L	L51	L101	L151	L201	L251	L301	L351	L401	L451	L501	L551	L601	L651	L701	L751	L801	L851	L901	L951
SFAN SFUN	4	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
	5																				
	6																				
	8																				
	10																				
	12																				
	13																				
	15																				
	16																				
	18																				
SSFAN SSFUN	4																				
	5																				
	6																				
	8																				
	10																				
	12																				
	13																				
	15																				
	16																				
	18																				
PSFAN PSFUN	4																				
	5																				
	6																				
	8																				
	10																				
	12																				
	13																				
	15																				
	16																				
	18																				
PSSFAN PSSFUN	4																				
	5																				
	6																				
	8																				
	10																				
	12																				
	13																				
	15																				
	16																				
	18																				

Part Number		Unit Price							
Type	D	Min. L	L51	L101	L151	L201	L301	L401	L1201
PSFGN	6								
	8								
	10								
	12, 13								
	15, 16								
	18, 20								
	25								
	30								
	35								
	40								
PSSFGN	6								
	8								
	10								
	12, 13								
	15, 16								
	18, 20								
	25								
	30								
	35								
	40								

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