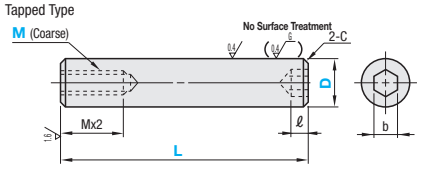
Shafts
Hex Socket

RoHS 10

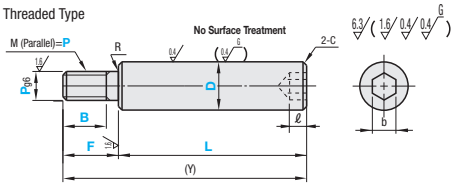
- Features of Low Temp. Black Chrome Plating P.128
- L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness P.111
- Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm).

Type			D Tol.	M Material	H Hardness	S Surface Treatment
Tapped Type	Stepped and Tapped Type	Threaded Type				
SFBT	SFBH	SFBN	g6	SUJ2 Equivalent SUS440C or 13Cr stainless	Effective Hardened Depth of Induction Hardening P.112	-
SSFBT	SSFBH	SSFBN				Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 5μ or More
PSFBT	PSFBH	PSFBN		SUJ2 Equivalent SUS440C or 13Cr stainless	SUJ2 Equivalent 58HRC~ SUS440C or 13Cr stainless 56HRC~	
PSSFBT	PSSFBH	PSSFBN		SUJ2 Equivalent		Low Temp. Black Chrome Plating
RSFBT	RSFBH	RSFBN				

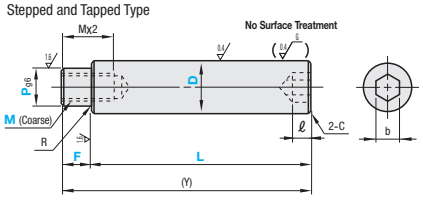
Tapped Type



Threaded Type



Stepped and Tapped Type



Hex Socket Dimensions

D	b	Hex Socket Depth ℓ
6	2.5	3.5
8	3	4.5
10	4	6
12, 13, 15	5	7.5
16, 18	6	9
20	8	12

Tapped Type, Stepped and Tapped Type

Part Number Type		D	1mm Increment L (Tapped)	L (Stepped and Tapped)	F	P	Selection M (Tapped)	M (Stepped and Tapped)	(Y) Max.	R	C
Tapped Type	Stepped and Tapped Type	*6	20~ 300	-		-	3	-	-		
SFBT	SFBH	8	20~ 400	25~ 400		6	3 4 5	3	424		
SSFBT	SSFBH	10	20~ 500	25~ 500		6~ 8	3 4 5 6	3 4 5	532		
PSFBT	PSFBH	12	20~ 600	25~ 600		6~10	4 5 6 8	3 4 5 6	640	0.3 or Less	0.5 or Less
PSSFBT	PSSFBH	13	25~ 650	25~ 650	2≤F≤Px4	6~11	4 5 6 8	3 4 5 6 8	694		
RSFBT	RSFBH	15	25~ 750	25~ 750		6~13	4 5 6 8 10	3 4 5 6 8 10	802		
(L≤500)	(L≤500)	16	30~ 800	25~ 800		6~14	4 5 6 8 10	3 4 5 6 8 10	856		
		18	30~ 900	25~ 900		8~16	4 5 6 8 10 12	4 5 6 8 10 12	964		
D=6 is available for Tapped Type only.		20	30~1000	25~1000		8~17	4 5 6 8 10 12	4 5 6 8 10 12	1068		1.0 or Less

- Tapped Type P≤L+4+ℓ≤L P≤When Mx2.5+4+ℓx1.5≤L, tap pilot holes may go through.
- Stepped and Tapped Type P≥M+3 P≤Mx2.5+4+ℓ≤Y P≤When Mx2.5+4+ℓx1.5≤Y, tap pilot holes may go through.

Threaded Type

Part Number Type	D	1mm Increment L	F	B (Threaded)	P Selection	(Y) Max.	R	C
Threaded Type	6	25~ 300			3 4 5	330		
SFBN	8	25~ 400		(When P≤6) B≤F-2	3 4 5 6	440		
SSFBN	10	25~ 500		(When P=8, 10) B≤F-3	4 5 6 8	550		
PSFBN	12	25~ 600			5 6 8 10	660	0.3 or Less	0.5 or Less
PSSFBN	13	25~ 650	2≤F≤Px5	(When P=12, 16) B≤F-5	5 6 8 10 12	715		
RSFBN	15	25~ 750			5 6 8 10 12	825		
(L≤500)	16	25~ 800			5 6 8 10 12	880		
	18	25~ 900		P≥Pitchx3	5 6 8 10 12 16	990		
	20	25~1000			6 8 10 12 16	1100		1.0 or Less

D>P

Ordering Example

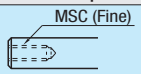
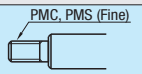
Part Number	L	F	B	P	M
SFBT20	525				M8
SFBH20	400	F25		P16	M10
SFBN20	500	F25	B20	P16	

Alterations

Part Number	L	F	B	P (PMC, PMS)	M (MSC)	(LKC···etc.)
SFBN20	250	F40	B30	P10		LKC

Alterations may lower hardness. See P.112

Coarse Thread Dimension M	pitch
3	0.5
4	0.7
5	0.8
6	1.0
8	1.25
10	1.5
12	1.75
16	2.0

Alterations	Alteration to L dimension tolerance	Fine Tap	Fine Thread
			
Code	LKC	MSC	PMC•PMS
Spec.	Changes L tolerance. Ordering Code LKC L<200··· L±0.03 200≤L<500 ··· L±0.05 L≥500··· L±0.1 For use of LKC L dimensions can be specified in 0.1mm increment. Not applicable when D-P≤2.	Changes tapped threads to fine tapped threads shown in the table below. Ordering Code MSC14 Applicable to Tapped Type Specify M dimensions with MSC. M dimension is equal to MSC. Not applicable to Stepped and Tapped Type.	Changes the threads to fine threads shown in the table below. (PMC→Applicable to bearing nut fine thread pitches.) (PMS→Applicable to cylinder fine thread pitches.) Ordering Code PMC17 Applicable to Threaded Type only. Specify P dimensions with PMC (PMS). P dimension is equal to that of PMC(PMS).

MSC

D	MSC			
12, 13	8			
15, 16	8	10		
18	8	10	12	
20	8	10	12	14
Pitch	1.0	1.25	1.5	

PMC

D	PMC						PMS		
6	3	4	5						
8	3	4	5	6					
10		4	5	6	8				
12			5	6	8	10		10	
13			5	6	8	10	12	10	
15			5	6	8	10	12	10	12
16			5	6	8	10	12 15	10	12 14
18			5	6	8	10	12 15 17	10	12 14
20				6	8	10	12 15 17	10	12 14 18
Pitch	0.35		0.5	0.75		1.0	1.5	1.25	1.5