

Rotary Shafts - D Tolerance h9 (Cold-drawn) / h7 (Ground) / g6 (Ground)

One End Tapped

Select from h9 (Cold-drawn), h7 (Ground) and g6 (Ground) for your applications.



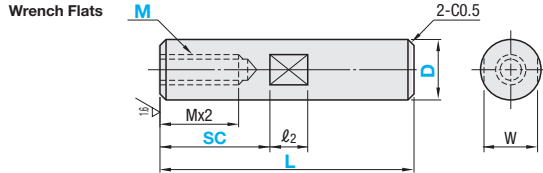
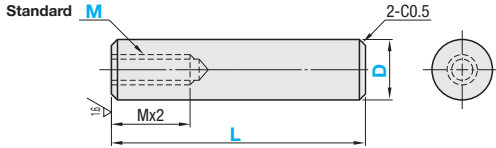
RoHS 10

	Type		D Tolerance	Material	Surface Treatment
	Standard	Wrench Flats			
(1)	SFMRT	SFMRTS	h9 (Cold-drawn)	S45C Equivalent	Black Oxide
	PSFMRT	PSFMRTS		SUS304	Electroless Nickel Plating
	SSFMRRT	SSFMRRTS		SUS304	-
(2)	SFHRT	SFHRTS	h7 (Ground)	S45C Equivalent	Black Oxide
	PSFHRT	PSFHRTS		SUS304	Electroless Nickel Plating
	SSFHRT	SSFHRTS		SUS304	-
(3)	SFRT	SFRTS	g6 (Ground)	S45C Equivalent	Black Oxide
	PSFRT	PSFRTS		SUS304	Electroless Nickel Plating
	SSFRT	SSFRTS		SUS304	-
	HFRT	-		SCM435	Black Oxide
	PHFRT	-		Electroless Nickel Plating	

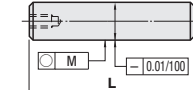
Tolerance Table

D	h9 (Cold-drawn)	h7 (Ground)	g6 (Ground)
4-6	0 -0.030	0 -0.012	-0.004 -0.012
8, 10	0 -0.036	0 -0.015	-0.005 -0.014
12-18	0 -0.043	0 -0.018	-0.006 -0.017
20-30	0 -0.052	0 -0.021	-0.007 -0.020
35-50	0 -0.062	0 -0.025	-0.009 -0.025

Surface roughness of Part D for h9 (Cold-drawn) is $\sqrt{6.3}$. Surface roughness for h7 (Ground) and g6 (Ground) is $\sqrt{1.6}$.



Circularity and Straightness



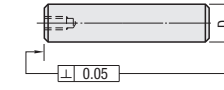
Not applicable to h9 (Cold-drawn).

Circularity of Part D

D	over	or Less	Circularity M
3	13		0.004
13	20		0.005
20	40		0.006
40	50		0.007

Not applicable to h9 (Cold-drawn).

Perpendicularity



Not applicable to h9 (Cold-drawn).

Tolerances of L and Other Dimensions

Dimension over	or Less	Tolerance
2	6	± 0.1
6	30	± 0.2
30	120	± 0.3
120	400	± 0.5
400	1000	± 0.8

(1)h9 (Cold-drawn)

Part Number Type	D	L 1mm Increment	M (Coarse) Selection	SC 1mm Increment Wrench Flats Type only	W	l2
SFMRT PSFMRT SSFMRRT (D4, D5 or D6 is not available for SFMRT) (D4, D5 or D6 is not available for SSFMRRT) (Wrench flats are not available for D4 and D5.)	4	15.0-200.0	2	-	-	-
	5	15.0-250.0	2 2.6 3	-	-	-
	6	15.0-400.0	2.6 3 4	-	5	-
	8	15.0-500.0	2.6 3 4 5 6	-	7	8
	10	15.0-600.0	3 4 5 6	-	8	-
	12	15.0-700.0	4 5 6 8	-	10	-
	15	15.0-800.0	4 5 6 8 10	-	13	10
	20	30.0-1000.0	4 5 6 8 10 12 16	-	17	-
	25	50.0-1000.0	4 5 6 8 10 12 16	-	22	-
	30	60.0-1000.0	6 8 10 12 16 20	-	27	15
	35	70.0-1000.0	6 8 10 12 16 20 24	-	30	-

(2)h7 (Ground)

When $L \leq M \times 3$, the pilot hole may go through.

Part Number Type	D	L 1mm Increment	M (Coarse) Selection	SC 1mm Increment Wrench Flats Type only	W	l2
SFHRT PSFHRT SSFHRT (Wrench flats are not available for D4 and D5.)	4	15.0-200.0	2	-	-	-
	5	15.0-250.0	2 2.6 3	-	-	-
	6	15.0-400.0	2.6 3 4	-	5	-
	8	15.0-500.0	2.6 3 4 5 6	-	7	8
	10	15.0-600.0	3 4 5 6	-	8	-
	12	15.0-700.0	4 5 6 8	-	10	-
	15	15.0-800.0	4 5 6 8 10	-	13	10
	17	30.0-900.0	4 5 6 8 10 12	-	14	-
	20	30.0-1000.0	4 5 6 8 10 12 16	-	17	-
	25	50.0-1000.0	4 5 6 8 10 12 16	-	22	-
	30	60.0-1000.0	6 8 10 12 16 20	-	27	15
	35	70.0-1000.0	6 8 10 12 16 20 24	-	30	-
	40	80.0-1000.0	10 12 16 20 24 30	-	36	20
	50	100.0-1000.0	12 16 20 24 30	-	41	-

(3)g6 (Ground)

When $L \leq M \times 3$, the pilot hole may go through.

Part Number Type	D	L 1mm Increment	M (Coarse) Selection	SC 1mm Increment Wrench Flats Type only	W	l2
SFRT PSFRT SSFRT *HFRT *PHFRT (Only * marked sizes are available.) (Only * marked sizes are available.) (D13, D16, D18 or D22 is not available for SSFRT) (D13, D16, D18 or D22 is not available for PSFRTS)	4	15.0-200.0	2	-	-	-
	5	15.0-250.0	2 2.6 3	-	-	-
	6	15.0-400.0	2.6 3 4	-	5	-
	8	15.0-500.0	2.6 3 4 5 6	-	7	8
	10	15.0-600.0	3 4 5 6	-	8	-
	12	15.0-700.0	4 5 6 8	-	10	-
	13	15.0-700.0	4 5 6 8	-	11	-
	*15	15.0-800.0	4 5 6 8 10	-	13	10
	16	15.0-900.0	4 5 6 8 10	-	14	-
	17	30.0-900.0	4 5 6 8 10 12	-	15	-
	18	30.0-900.0	4 5 6 8 10 12	-	17	-
	*20	30.0-1000.0	4 5 6 8 10 12 16	-	19	15
	22	40.0-1000.0	4 5 6 8 10 12 16	-	22	-
	*25	50.0-1000.0	4 5 6 8 10 12 16	-	27	15
	*30	60.0-1000.0	6 8 10 12 16 20	-	30	-
*35	70.0-1000.0	6 8 10 12 16 20 24	-	36	20	
*40	80.0-1000.0	10 12 16 20 24 30	-	41	-	
*50	100.0-1000.0	12 16 20 24 30	-	41	-	

When $L \leq M \times 3$, the pilot hole may go through. For HFRT, PHFRT, the upper limit for L dim. is 800.

Ordering Example: Part Number - L - M - SC
 SFMRT30 - 250 - M12
 SSFHRTS25 - 200 - M8 - SC20