


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

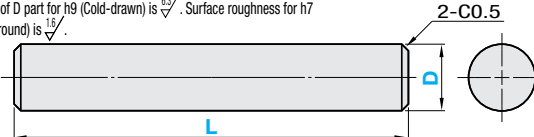
Select from h9 (Cold-drawn), h7 (Ground) and g6 (Ground) for your applications.



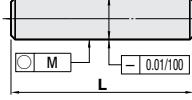
RoHS10

Type	D Tolerance	M Material	S Surface Treatment
①	SFMR	h9 (Cold-drawn)	EN 1.1191 Equiv. Black Oxide
	PSFMR		Electroless Nickel Plating
	SSFMR		-
②	SFHR	h7 (Ground)	EN 1.1191 Equiv. Black Oxide
	PSFHR		Electroless Nickel Plating
	SSFHR		-
③	SFR	g6 (Ground)	EN 1.1191 Equiv. Black Oxide
	PSFR		Electroless Nickel Plating
	SSFR	EN 1.4301 Equiv. -	
	HFR	EN 1.7220 Equiv. Black Oxide	
	PHFR	EN 1.7220 Equiv. Electroless Nickel Plating	

Ⓜ Surface roughness of D part for h9 (Cold-drawn) is $\sqrt{1.6}$. Surface roughness for h7 (Ground) and g6 (Ground) is $\sqrt{0.8}$.



■ Circularity and Straightness



Ⓜ Straightness of size D2, D2.5 is 0.1/100.
Ⓜ Not applicable to h9 (Cold-drawn).

■ Circularity of Part D

D		Circularity M
over	or Less	
1	2.5	0.006
3	13	0.004
13	20	0.005
20	40	0.006
40	50	0.007

Ⓜ Not applicable to h9 (Cold-drawn).

■ L Dimension Tolerance

Dimension		Tolerance
over	or Less	
14	30	±0.2
30	120	±0.3
120	400	±0.5
400	800	±0.8

① h9 (Cold-drawn)

Type	Part Number	D _{h9}	L=0.1mm Increment
SFMR PSFMR SSFMR (D6 is not available for SSFMR.)	3	$\frac{0}{-0.025}$	15.0 ~ 150.0
	4	0	15.0 ~ 200.0
	5	-0.030	15.0 ~ 250.0
	6		20.0 ~ 300.0
	8	0	20.0 ~ 400.0
	10	-0.036	20.0 ~ 500.0
	12	0	30.0 ~ 600.0
	15	-0.043	30.0 ~ 700.0
	20	0	40.0 ~ 800.0
	25	0	50.0 ~ 800.0
	30	-0.052	60.0 ~ 800.0
	35		70.0 ~ 800.0
	40	0	80.0 ~ 800.0
	50	-0.062	100.0 ~ 800.0

② h7 (Ground)

Type	Part Number	D _{h7}	L=0.1mm Increment
SFHR PSFHR SSFHR	3	$\frac{0}{-0.010}$	15.0 ~ 150.0
	4		15.0 ~ 200.0
	5	0	15.0 ~ 250.0
	6	-0.012	20.0 ~ 300.0
	8	0	20.0 ~ 400.0
	10	-0.015	20.0 ~ 500.0
	12		30.0 ~ 600.0
	15	0	30.0 ~ 700.0
	17	-0.018	40.0 ~ 800.0
	20		40.0 ~ 800.0
	25	0	50.0 ~ 800.0
	30	-0.021	60.0 ~ 800.0
	35		70.0 ~ 800.0
	40	0	80.0 ~ 800.0
	50	-0.025	100.0 ~ 800.0

③ g6 (Ground)

Type	Part Number	D _{g6}	L=0.1mm Increment
SFR PSFR SSFR (D13, 16, 18 and 22 are not available for SSFR.) *HFR (Only * marked sizes are available.) *PHFR (Only * marked sizes are available.)	2	-0.002	15.0 ~ 50.0
	2.5	-0.008	15.0 ~ 50.0
	3		15.0 ~ 150.0
	4	-0.004	15.0 ~ 200.0
	5	-0.012	15.0 ~ 250.0
	6		20.0 ~ 300.0
	8	-0.005	20.0 ~ 400.0
	10	-0.014	20.0 ~ 500.0
	12		30.0 ~ 600.0
	13		30.0 ~ 600.0
	*15	-0.006	30.0 ~ 700.0
	16	-0.017	30.0 ~ 800.0
	17		40.0 ~ 800.0
	18		40.0 ~ 800.0
	*20		40.0 ~ 800.0
	22	-0.007	40.0 ~ 800.0
	*25	-0.020	50.0 ~ 800.0
	*30		60.0 ~ 800.0
	*35	-0.009	70.0 ~ 800.0
	*40	-0.025	80.0 ~ 800.0
*50		100.0 ~ 800.0	

Part Number	-	L
SFMR15	-	150
PSFHR20	-	300