

if) When both ends are fixed;

According to condition

$$P = 11.5 \times 10^{-3} (\text{kgf} \cdot \text{mm}^2) \quad \beta \xi = 1800 (\text{mm})$$

$$C = 3.44 \times 10^{-12} (1/\text{kgf} \cdot \text{mm}^2)$$

from the table, Therefore

$$\delta \max = \frac{1}{4} P l^3 \quad C = 0.05 (\text{mm})$$

5 Part Number of LM Shaft

1. Type number format I (Case hardened & ground shaft)

$$\boxed{\text{WS}} - \boxed{\text{D}} \boxed{16} \boxed{h_6} \times \boxed{2000}$$

①
②
③
④
⑤

① Type of LM Shaft

Case Hardened and Ground Shaft	WS	Conventional shaft to be used with Ball Bushing. - Material : High Carbon Steel (KS SM55C, JIS S55C) for LM Shaft, KS STB-2(JIS SUJ-2)
	WAS	The exclusive usage for Ball Bushing in use for high anti-corrosive applications under the oxidizing atmosphere such as water, vapor, chemical, food process machinery, semiconductor and medical equipments. - Material : KS STS440C(JIS SUS440C)
	WCS	Hard Chromium plated shaft providing a cost reduction in comparison to the stainless steel shaft with the same function as anti-corrosion. - Material : High Carbon Steel KS SM55C(JIS S55C) for LM Shaft, KS STB-2(JIS SUJ-2)

② Machining type and number (In case of standard shaft or simple cutting shaft, This is not necessary to be indicated)

D	Manufacture refer to drawing
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③Diameter (mm), ④Diameter Tolerance (μm), ⑤Length(mm)

DIA (mm)	Diameter tolerance (μm)			Standard stroked length L (mm)							
	g6	h5	h6	300	500	1000	1200	1500	2000	3000	
3	-2 ~ -8	0 ~ -4	0 ~ -6								
4											
5	-4 ~ -12	0 ~ -5	0 ~ -8								
6											
8	-5 ~ -14	0 ~ -6	0 ~ -9								
10											
12											
13	-6 ~ -17	0 ~ -8	0 ~ -11								
16											
20											
25											
30	-7 ~ -20	0 ~ -9	0 ~ -13								
35											
40											
50	-9 ~ -25	0 ~ -11	0 ~ -16								
60											
80											
	-10 ~ -29	0 ~ -13	0 ~ -19								

Note 1) Max. Length : 6000mm
2) Max. Diameter : 300mm