

3 Mounting

Geometric and positional accuracy of the mounting surface

The inaccuracy of the mounting surfaces will affect the running accuracy and reduce the operating lifetime of the ST miniature Stroke Slide. If the inaccuracies of the mounting surfaces exceed the values calculated by formulas (15), (21), and (17), the lifetime will become shortened, as calculated by formulas (19) and (20).

$$e_1(\text{mm}) = b(\text{mm}) \cdot f_1 \cdot 10^{-4} \quad \text{--- (15)}$$

$$e_2(\text{mm}) = \left(\frac{d}{L_c}\right) \cdot f_2 \cdot 10^{-5} \quad \text{--- (21)}$$

$$e_3(\text{mm}) = f_3 \cdot 10^{-3} \quad \text{--- (17)}$$

L_c = length of the cage

Size	V0			V1			Ordering Designation							
	f ₁	f ₂	f ₃	f ₁	f ₂	f ₃	ST	7	M	V0	P	25.5 / 34	55	To
7	5	200	4	3	130	3								
9	5	300	6	4	200	4								
12	6	380	8	4	250	6								
15	7	530	12	5	350	8								

ST	7	M	V0	P	25.5 / 34	55	To
Stroke type	Size	M: standard width W: wide type	V0: clearance V1: light preload(0.02C)	N: normal H: high P: precision	cage length (mm)	block length (mm)	Max. temperature °C To: 150 T1: 200 T2: 300
						rail length (mm)	

Height and fillet of the fitting edge

The tables for the fillet of the fitting edge corner and the height of the fitting edge shown on page 12 are also suitable for the ST series.

4 Ordering Designation

An example of the ST Miniature Stroke Slide series part numbering system is shown in the above Ordering Designation