

3.4.4 Dimensional Tolerance Between the Reference Surface and a Mounting Hole

Be sure to note that an excessive dimensional tolerance between the reference surface and an LM rail or block will adversely affect the fitting between them.

Normally, depending on the model number, the tolerance should be within ± 0.1 mm (Fig. 27).

3.4.5 Chamfering Tapped Mounting Holes

In some mounting surfaces, mounting holes may be tapped. If tapped holes are chamfered to an improper radius, the resulting chamfer may impair precision (Fig. 27).

Chamfer dimensional guidelines

Chamfer diameter D = bolt nominal diameter + pitch

[Ex.] For M6 (pitch: 1)

$$D = 6 + 1 = 7$$