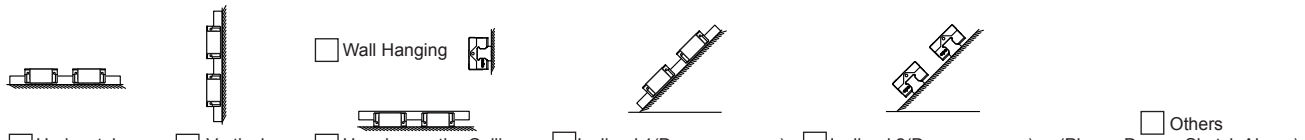
Linear Guide Service Life Calculation and Model Selection

Company /		Date (DD/MM/YEAR) /
Address /		Tel /
Contact /	Department /	Machine Model /
Application(Axial) /	Amount required per Machines /	Sample Required Date (DD/MM/YEAR)/
Application Drawing Provided? ☐ Yes ☐ No		Production Date (DD/MM/YEAR)/

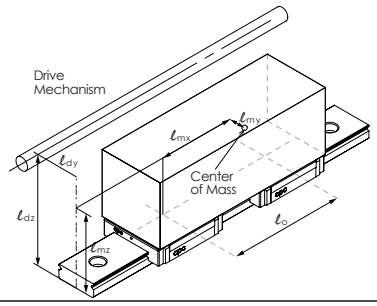
Assembly Specification / Way of Assembling

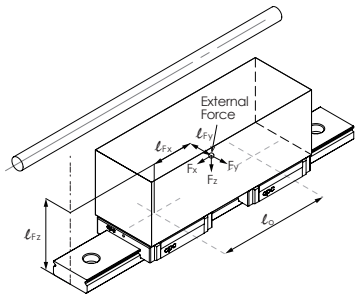


☐ Horizontal ☐ Vertical ☐ Wall Hanging ☐ Hanging on the Ceiling ☐ Inclined 1(Degree: _____) ☐ Inclined 2(Degree: _____) ☐ Others (Please Draw a Sketch Above)

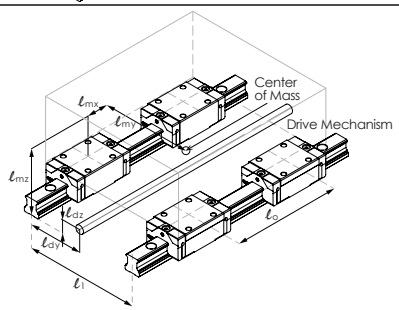
Rails per Axial	☐ I (1)	☐ II (2)	☐ III (3)	☐ Other _____
Blocks per Rail	☐ 1	☐ 2	☐ 3	☐ Other _____
Distribution of Blocks (mm)	ℓ_o: _____ (Distance Between Blocks on the same rail)		ℓ_1: _____ (Distance Between Adjacent Blocks on different rails)	
Center of Mass of load(mm)	ℓ_{mx}: _____	ℓ_{my}: _____	ℓ_{mz}: _____	
Mass of Load (kg)	_____ (Please include mounting plate weight)			
Driver Position (mm)	ℓ_{dz}: _____	ℓ_{dy}: _____		
External Force Applying Position (mm)	ℓ_{Fx}: _____	ℓ_{Fy}: _____	ℓ_{Fz}: _____	
Axial Component (N)	Fx: _____	Fy: _____	Fz: _____	

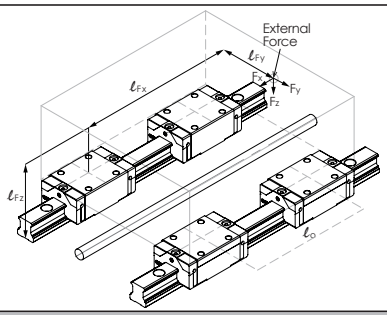
One Rail Per Axial





Two Rails Per Axial





Motion Specification

Drive Mechanism	☐ Linear Motor ☐ Ball Screw ☐ Pneumatic Cylinder ☐ Belt ☐ Hydraulic cylinder ☐ Rack and Pinion ☐ Manual ☐ Other _____	
Specification	Stroke Distance (mm):	Maximum Speed (m/sec):
	Acceleration (m/sec²):	Deceleration (m/sec²):
	Stroke Time (sec)	Frequency (hr^{-1}):
	Daily Operation Time (hr):	Expected Service Life (Year):

Environment and Lubrication Requirements

Environment	☐ General ☐ Clean room(Grade/Class_____) ☐ Vacuum / Low Pressure ☐ Small Amount of Dust (Substance_____) ☐ Large Amount of Dust (Substance_____) ☐ Liquid (Substance_____) ☐ Special Gas (Substance____) ☐ Other_____			
cpc Initial Lubrication	☐ Pre-lubricated (Regular Amount)	☐ Pre-lubricated (Small Amount)	☐ None	☐ Other_____
cpc Initial Antirust Method	☐ Apply Antirust Oil On the Surface	☐ Apply Grease On the Surface	☐ None	☐ Other_____
Customer Initial Lubrication	☐ cpc Grease only	☐ In addition to cpc Grease, Inject Customer's Grease (Grease :_____)	☐ Remove cpc Grease And Inject Customer's Grease (Solvent:_____) (Grease:_____)	☐ Other_____
End User Re-lubrication Method	☐ Manual	☐ Central Oiling System	☐ None	☐ Other_____