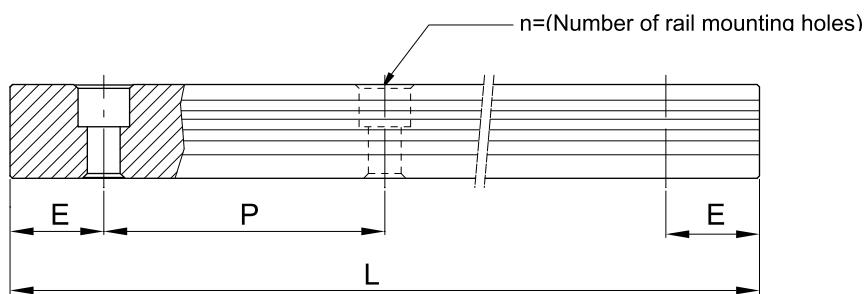


Linear Guideways

HG Series

2-1-11 Standard and Maximum Lenaths of Rail

HIWIN offers standard rail lenaths for customer needs. For non-standard E-values, the recommended dimension should not be greater than 1/2 of the pitch (P) dimension. This will prevent an unstable rail end.



$$L = (n-1) \cdot P + 2 \cdot E \quad \dots \quad \text{Eq.2.1}$$

L : Total lenath of rail [mm]

n : Number of mounting holes

P : Distance between any two holes [mm]

E : Distance from the center of the last hole to the edge [mm]

Table 2.25 Rail Standard Lenath and Max. Lenath

unit: mm

Item	HG15	HG20	HG25	HG30	HG35	HG45	HG55	HG65
Standard Lenath L[n]	160[3]	220[4]	220[4]	280[4]	280[4]	570[6]	780[7]	1.270[9]
	220[4]	280[5]	280[5]	440[6]	440[6]	885[9]	1.020[9]	1.570[11]
	280[5]	340[6]	340[6]	600[8]	600[8]	1.200[12]	1.260[11]	2.020[14]
	340[6]	460[8]	460[8]	760[10]	760[10]	1.620[16]	1.500[13]	2.620[18]
	460[8]	640[11]	640[11]	1.000[13]	1.000[13]	2.040[20]	1.980[17]	
	640[11]	820[14]	820[14]	1.640[21]	1.640[21]	2.460[24]	2.580[22]	
	820[14]	1.000[17]	1.000[17]	2.040[26]	2.040[26]	2.985[29]	2.940[25]	
		1.240[21]	1.240[21]	2.520[32]	2.520[32]			
			1.600[27]	3.000[38]	3.000[38]			
Pitch (P)	60	60	60	80	80	105	120	150
Distance to End (E _s)	20	20	20	20	20	22.5	30	35
Max. Standard Lenath	1.960[33]	4.000[67]	4.000[67]	3.960[50]	3.960[50]	3.930[38]	3.900[32]	3.970[26]
Max. Lenath	2.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000

- Note :
1. Tolerance of E value for standard rail is 0.5~0.5 mm. Tolerance of E value for jointed rail is 0~0.3 mm.
 2. Maximum standard lenath means the max. rail lenath with standard E value on both sides.
 3. If different E value is needed, please contact HIWIN.