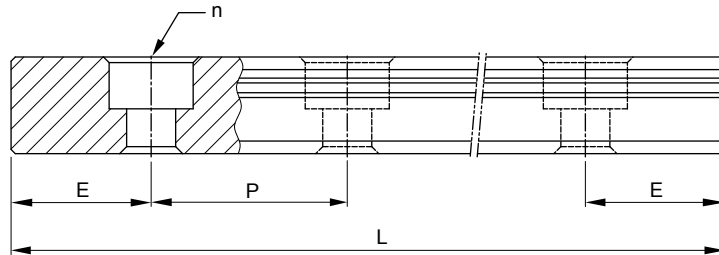


2-6-11 Standard and Maximum Lengths of Rail

HIWIN stocks standard lengths of rail. If a non-standard length is required, it is recommended to specify the E value not to be greater than 1/2 of the pitch (P) to avoid instability at the end of the rail, and the E value should not be less than E_{min} in order to prevent breaking the end mounting hole.



$$L = (n - 1) \times P + 2 \times E \quad \text{Eq.2.4}$$

L : Total length 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 2-6-8

unit: mm

Item	MGNR	MGNR	MGNR	MGNR	MGNR	MGWR	MGWR	MGWR	MGWR	MGWR
	5M	7M	9M	12M	15M	5M	7M	9M	12M	15M
Standard Length L(n)	40 (3)	40 (3)	55 (3)	70 (3)	70 (2)	50 (3)	80 (3)	80 (3)	110 (3)	110 (3)
	55 (4)	55 (4)	75 (4)	95 (4)	110 (3)	70 (4)	110 (4)	110 (4)	150 (4)	150 (4)
	70 (5)	70 (5)	95 (5)	120 (5)	150 (4)	90 (5)	140 (5)	140 (5)	190 (5)	190 (5)
	100 (7)	85 (6)	115 (6)	145 (6)	190 (5)	110 (6)	170 (6)	170 (6)	230 (6)	230 (6)
	130 (9)	100 (7)	135 (7)	170 (7)	230 (6)	130 (7)	200 (7)	200 (7)	270 (7)	270 (7)
	160 (11)	130 (9)	155 (8)	195 (8)	270 (7)	150 (8)	260 (9)	230 (8)	310 (8)	310 (8)
			175 (9)	220 (9)	310 (8)	170 (9)		260 (9)	350 (9)	350 (9)
			195 (10)	245 (10)	350 (9)			290 (10)	390 (10)	390 (10)
			275 (14)	270 (11)	390 (10)			350 (14)	430 (11)	430 (11)
			375 (19)	320 (13)	430 (11)			500 (19)	510 (13)	510 (13)
				370 (15)	470 (12)			710 (24)	590 (15)	590 (15)
				470 (19)	550 (14)			860 (29)	750 (19)	750 (19)
				570 (23)	670 (17)				910 (23)	910 (23)
			695 (28)	870 (22)				1070 (27)	1070 (27)	
Pitch (P)	15	15	20	25	40	20	30	30	40	40
Distance to End (E_e)	5	5	7.5	10	15	5	10	10	15	15
Max. Standard Length	250 (17)	595 (40)	995 (40)	1995 (80)	1990 (50)	250 (13)	590 (20)	1190 (40)	1990 (50)	1990 (50)
Max. Length	250	600	1000	2000	2000	250	600	1200	2000	2000

- 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 length indicates the max. rail length with standard E value on both sides.
 3. The specification with "M" mark are stainless steel.
 4. If smaller E value is needed, please contact HIWIN.