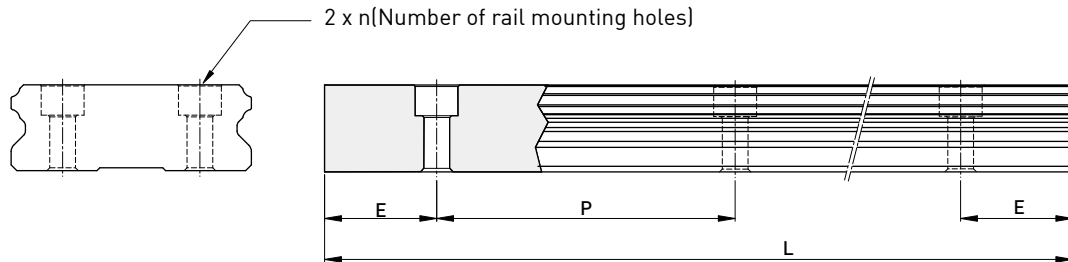


2-3-12 Standard and Maximum Lengths of Rail

HIWIN offers a number of standard rail lengths. Standard rail lengths feature end mounting hole placements set to predetermined values (E). For non-standard rail lengths, be sure to specify the E-value to be no greater than 1/2 the pitch (P) dimension. An E-value greater than this will result in unstable rail ends.



$$L = (n - 1) \times P + 2 \times E \quad \text{Eq.2.3}$$

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 2-3-19 Rail Standard Length and Max. Length

unit: mm

Item	WER17	WER21	WER27	WER35	WER50
Standard Length L(n)	110 (3)	130 (3)	220 (4)	280 (4)	280 (4)
	190 (5)	230 (5)	280 (5)	440 (6)	440 (6)
	310 (8)	380 (8)	340 (6)	600 (8)	600 (8)
	390 (10)	480 (10)	460 (8)	760 (10)	760 (10)
	470 (12)	580 (12)	640 (11)	1000 (13)	1,000 (13)
	550 (14)	780 (16)	820 (14)	1,640 (21)	1,640 (21)
	-	-	1,000 (17)	2,040 (26)	2,040 (26)
	-	-	1,240 (21)	2,520 (32)	2,520 (32)
	-	-	1,600 (27)	3,000 (38)	3,000 (38)
Pitch (P)	40	50	60	80	80
Distance to End (E _s)	15	15	20	20	20
Max. Standard Length	4,000 (100)	4,000 (80)	4,000 (67)	3,960 (50)	3,960 (50)
Max. Length	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 length means the max. rail length with standard E value on both sides.
 3. If different E value is needed, please contact HIWIN.