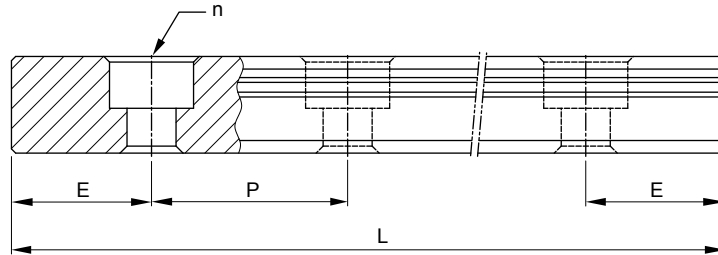


MG Series

Miniature Type

2-4-17 Standard and Maximum Lengths of Rail

HIWIN offers standard lengths of rail for fast shipping. For non-standard rail lengths, it's recommended that the E value is no greater than 1/2 of the pitch(P) to prevent instability at the end of the rail, and the E value should be no less than E-min to avoid a broken mounting hole.



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

- 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 2-4-15

unit: mm

Item	MGNR2	MGNR3	MGNR5	MGNR7	MGNR9	MGNR12	MGNR15	MGWR2	MGWR3	MGWR5	MGWR7	MGWR9	MGWR12	MGWR14	MGWR15
Standard Length L (n)	32(4)	30(3)	40(3)	40(3)	55(3)	70(3)	70(2)	40(4)	40(3)	50(3)	50(2)	80(3)	110(3)	110(3)	110(3)
	40(5)	40(4)	55(4)	55(4)	75(4)	95(4)	110(3)	60(6)	55(4)	70(4)	80(3)	110(4)	150(4)	150(4)	150(4)
	56(7)	50(5)	70(5)	70(5)	95(5)	120(5)	150(4)	70(7)	70(5)	90(5)	110(4)	140(5)	190(5)	190(5)	190(5)
	80(10)	60(6)	100(7)	85(6)	115(6)	145(6)	190(5)	80(8)	100(7)	110(6)	140(5)	170(6)	230(6)	230(6)	230(6)
	104(13)	80(8)	130(9)	100(7)	135(7)	170(7)	230(6)	100(10)	130(9)	130(7)	170(6)	200(7)	270(7)	270(7)	270(7)
		100(10)	160(11)	130(9)	155(8)	195(8)	270(7)		160(11)	150(8)	200(7)	230(8)	310(8)	310(8)	310(8)
					175(9)	220(9)	310(8)		170(9)	260(9)	260(9)	350(9)	350(9)	350(9)	350(9)
					195(10)	245(10)	350(9)			290(10)	290(10)	390(10)	390(10)	390(10)	390(10)
					275(14)	270(11)	390(10)				350(14)	430(11)	430(11)	430(11)	430(11)
					375(19)	320(13)	430(11)				500(19)	510(13)	510(13)	510(13)	510(13)
						370(15)	470(12)				710(24)	590(15)	590(15)	590(15)	590(15)
						470(19)	550(14)				860(29)	750(19)	750(19)	750(19)	750(19)
					570(23)	670(17)					910(23)	910(23)	910(23)	910(23)	
					695(28)	870(22)					1070(27)	1070(27)	1070(27)	1070(27)	
Pitch (P)	8	10	15	15	20	25	40	10	15	20	30	30	40	40	40
Distance to End (E _s)	4	5	5	5	7.5	10	15	5	5	5	10	10	15	15	15
Max. Standard Length	248(31)	250(25)	250(17)	595(40)	1195(60)	1995(80)	1990(50)	250(25)	250(17)	250(13)	590(20)	1970(66)	1990(50)	1790(45)	1990(50)
Max. Length	250 ⁶	250 ⁶	250 ⁶	600	1200 ⁷	2000	2000	250 ⁶	250 ⁶	250 ⁶	600 ⁸	2000	2000	1800 ⁵	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. Fixing screws for MGN5's mounting holes are appended.
 4. If smaller E value is needed, please contact HIWIN.
 5. MGWR14 is only supplied with carbon steel.
 6. MGNR2, MGWR2, MGNR3, MGWR3, MGNR5, MGWR5 are only supplied with stainless steel.
 7. MGNR9 of stainless steel is supplied with the maximum length of 1200mm; MGNR9 of carbon steel is supplied with the maximum length of 1000mm.
 8. MGWR7 of stainless steel is supplied with the maximum length of 600mm; MGWR7 of carbon steel is supplied with the maximum length of 2000mm.