1.3.10.3 Dimensions EGR_T (mounting from below)

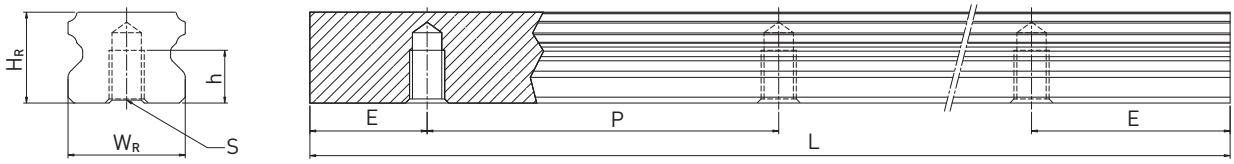


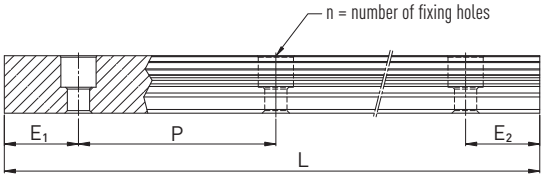
Table 1.30

Series Size	Dimensions of the rail [mm]					Max. length [mm]	Max. length $E_1 = E_2$	$E_{1/2}$ min [mm]	$E_{1/2}$ max [mm]	Mass [kg/m]
	W_R	H_R	S	h	P					
EGR15T	15	12,5	M5	7,0	60,0	4000	3900	6	54	1,26
EGR20T	20	15,5	M6	9,0	60,0	4000	3900	7	53	2,15
EGR25T	23	18,0	M6	10,0	60,0	4000	3900	8	52	2,79
EGR30T	28	23,0	M8	14,0	80,0	4000	3920	9	71	4,42
EGR35T	34	27,5	M8	17,0	80,0	4000	3920	9	71	6,34

Note:
1. The tolerance for E is +0,5 to −1 mm for standard, for joint connections 0 to −0.3 mm
2. If no information is provided on the $E_{1/2}$ dimensions, the maximum number of fixing holes is determined taking into account $E_{1/2}$ min
3. The rails are shortened to the desired length. If no information on the $E_{1/2}$ dimensions is provided, then the rails are manufactured symmetrically.

1.3.10.4 Calculation of the length of rails

HIWIN offers customer-specific lengths. To ensure that the ends of the rails for non-standard lengths are stable, value E must not exceed half the distance between the fixing holes (P). In addition, value $E_{1/2}$ must not be less than $E_{1/2}$ min and must not exceed $E_{1/2}$ max to prevent breakage of the fixing hole.



$$L = (n-1)\cdot P + E_1 + E_2$$

L: Total rail length [mm]
n: Number of fixing holes
P: Distance between two fixing holes [mm]
$E_{1/2}$: Distance from the center of the last fixing hole to the end of the rail [mm]

1.3.10.5 Tightening torques for fixing screws

Insufficient tightening of the fixing screws will highly detract from the accuracy of the linear guidway; the following tightening torques are recommended for the respective screw sizes.

Table 1.32 **Tightening torques for fixing screws to ISO 4762-12.9**

Series/Size	Screw size	Torque [Nm]	Series/Size	Screw size	Torque [Nm]
EG_15	M3 × 16	2	**EG_30**	M6 × 25	13
EG_15U	M4 × 16	4	**EG_30U**	M8 × 25	30
EG_20	M5 × 16	9	**EG_35**	M8 × 25	30
EG_25	M6 × 20	13			