

3.1.10 Dimensions of the HG rail

The HG rails are used for both the HG and QH blocks.

3.1.10.1 Dimensions of HGR_R

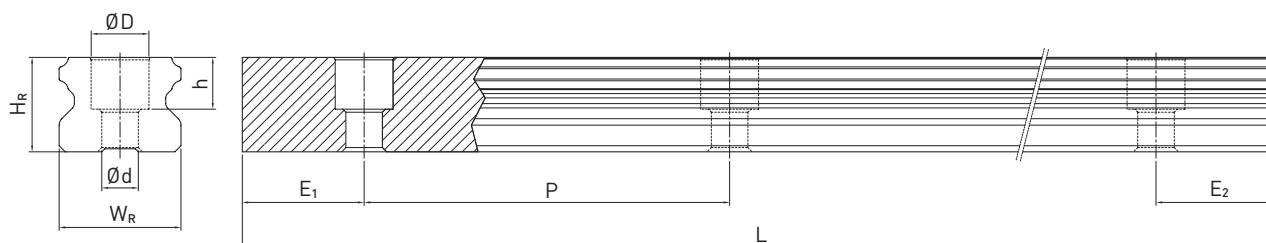


Table 3.9 Dimensions of rail HGR_R

Series/ size	Assembly screw for rail [mm]	Dimensions of rail [mm]						Max. length [mm]	Max. length E ₁ = E ₂ [mm]	E _{1/2} min [mm]	E _{1/2} max [mm]	Weight [kg/m]
		W _R	H _R	D	h	d	P					
HGR15R	M4 × 16	15	15.0	7.5	5.3	4.5	60	4,000	3,900	6	54	1.45
HGR20R	M5 × 16	20	17.5	9.5	8.5	6.0	60	4,000	3,900	7	53	2.21
HGR25R	M6 × 20	23	22.0	11.0	9.0	7.0	60	4,000	3,900	8	52	3.21
HGR30R	M8 × 25	28	26.0	14.0	12.0	9.0	80	4,000	3,920	9	71	4.47
HGR35R	M8 × 25	34	29.0	14.0	12.0	9.0	80	4,000	3,920	9	71	6.30
HGR45R	M12 × 35	45	38.0	20.0	17.0	14.0	105	4,000	3,885	12	93	10.41
HGR55R	M14 × 45	53	44.0	23.0	20.0	16.0	120	4,000	3,840	14	106	15.08
HGR65R	M16 × 50	63	53.0	26.0	22.0	18.0	150	4,000	3,750	15	135	21.18

3.1.10.2 Dimensions of HGR_T

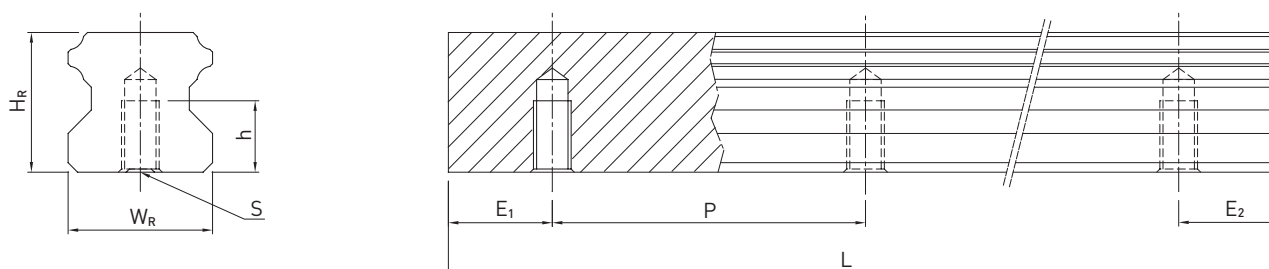


Table 3.10 Dimensions of rail HGR_T

Series/ size	Dimensions of rail [mm]					Max. length [mm]	Max. length E ₁ = E ₂ [mm]	E _{1/2} min [mm]	E _{1/2} max [mm]	Weight [kg/m]
	W _R	H _R	S	h	P					
HGR15T	15	15.0	M5	8	60	4,000	3,900	6	54	1.48
HGR20T	20	17.5	M6	10	60	4,000	3,900	7	53	2.29
HGR25T	23	22.0	M6	12	60	4,000	3,900	8	52	3.35
HGR30T	28	26.0	M8	15	80	4,000	3,920	9	71	4.67
HGR35T	34	29.0	M8	17	80	4,000	3,920	9	71	6.51
HGR45T	45	38.0	M12	24	105	4,000	3,885	12	93	10.87
HGR55T	53	44.0	M14	24	120	4,000	3,840	14	106	15.67
HGR65T	63	53.0	M20 ¹⁾	30	150	4,000	3,750	15	135	21.73

¹⁾ Deviating from DIN 645

Note:

1. The tolerance for E is +0.5 to -1 mm for standard rails and 0 to -0.3 mm for joints.
2. If the E_{1/2} dimensions are not indicated, the maximum possible number of mounting holes will be determined under consideration of E_{1/2} min.
3. The rails are shortened to the required length. If the E_{1/2} dimensions are not indicated, these will be carried out symmetrically.