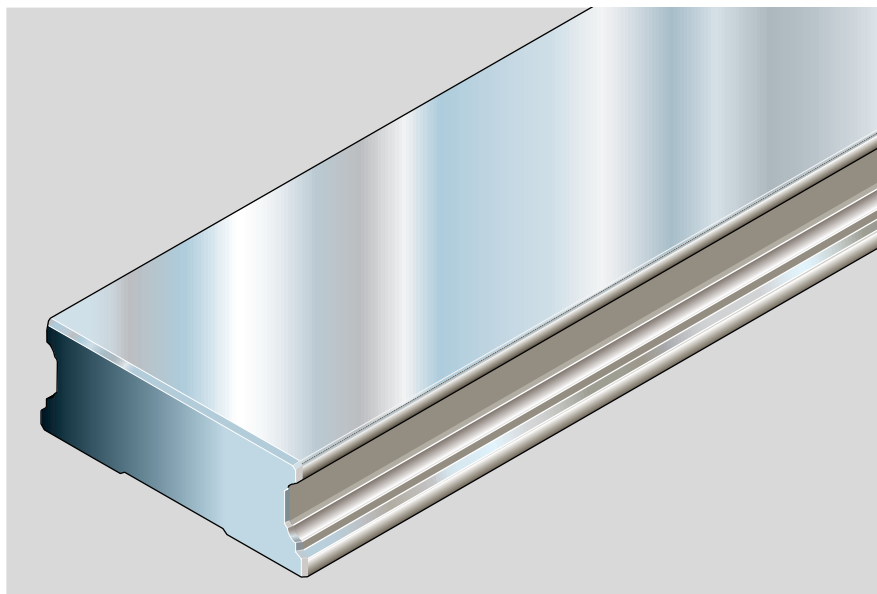


Rexroth Ball Rail Systems

Wide Guide Rails

Guide rail 1677-

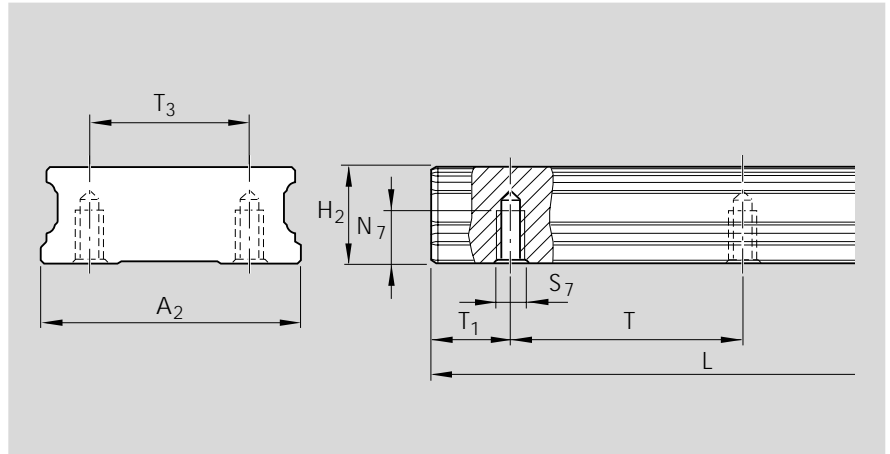
Wide, for mounting from below



Part numbers and rail lengths

Size	Accuracy class	Guide Rail		Spacing T (mm)	Recommended rail length				
		One-piece Part number, Rail length L (mm)	Composite Part number, Number of sections Rail length L (mm)		Number of holes n_B / Rail length L (mm) per row				
20/40	P	1677-802-31,.....	1677-802-3,.....	60	2 / 116	7 / 416	12 / 716	20 / 1196	40 / 2396
	H	1677-803-31,.....	1677-803-3,.....		3 / 176	8 / 476	13 / 776	22 / 1316	50 / 2996
	N	1677-804-31,.....	1677-804-3,.....		4 / 236	9 / 536	14 / 836	25 / 1496	60 / 3596
25/70	P	1677-202-31,.....	1677-202-3,.....	80	5 / 296	10 / 596	16 / 956	30 / 1796	66 / 3956
	H	1677-203-31,.....	1677-203-3,.....		6 / 356	11 / 656	18 / 1076	35 / 2096	
	N	1677-204-31,.....	1677-204-3,.....		2 / 156	7 / 556	12 / 956	20 / 1596	40 / 3196
35/90	P	1677-302-31,.....	1677-302-3,.....	80	3 / 236	8 / 636	13 / 1036	22 / 1756	50 / 3996
	H	1677-303-31,.....	1677-303-3,.....		4 / 316	9 / 716	14 / 1116	25 / 1996	
	N	1677-304-31,.....	1677-304-3,.....		5 / 396	10 / 796	16 / 1276	30 / 2396	
					6 / 476	11 / 876	18 / 1436	35 / 2796	

Dimensions and masses



Size	Dimension (mm)									Mass (kg/m)
	A ₂	H ₂	N ₇	S ₇	T _{1S} ^{+0.5/-1.0}	T _{1min}	T	T ₃	L _{max}	
20/40	42	19.05	7.5	M5	28	10	60	24	4 000	5.3
25/70	69	23.40	12.0	M6	38	10	80	40	4 000	11.6
35/90	90	32.00	15.0	M8	38	12	80	60	4 000	21.0

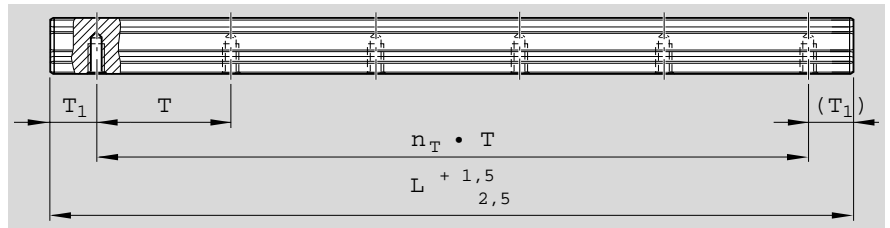
Ordering a guide rail

- Wherever possible, the recommended rail lengths as per table should be used.

Ordering example 1:

Guide rail size 35/90, accuracy class H, rail length 1756 mm, (21 · T, number of holes n_B = 22 means 44 holes in 2 rows)

Ordering information: **1677-303-31, 1756 mm**



Intermediate lengths

Calculation of rail length L and ordering examples:

- The preferred dimension is T_{1S}
- If T_{1S} cannot be used, then
 - Select an end space T₁ between T_{1S} and T_{1min}
 - Do not go below the minimum spacing T_{1min}!

Note

- T₁, T_{1min}, T_{1S} are the same at either end of the guide rail

$L = n_B \cdot T - 4$ <p>or</p> $L = n_T \cdot T + 2 \cdot T_{1S}$	<p>L = rail length (mm)</p> <p>T = hole spacing*) (mm)</p> <p>T_{1S} = preferred dimension*) (mm)</p> <p>n_B = number of holes per row</p> <p>n_T = number of spaces</p> <p>*) see tables for values</p>
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Ordering example 2 (up to L_{max}):

Guide rail size 35/90, accuracy class P, rail length 1676 mm, (20 · T, preferred dimension T_{1S} = 38 mm; number of holes n_B = 21 giving 42 holes in 2 rows)

Ordering data:

Part number, length (mm)
 T_{1S} / n_T · T / T_{1S} (mm)
1677-302-31, 1676 mm
38 / 20 · 80 / 38 mm

Rail lengths above L_{max} are made up of fitted rail sections mounted end to end.

Ordering example 3 (over L_{max}):

Guide rail size 35/90, accuracy class P, rail length 5036 mm, 2 sections (62 · T, preferred dimension T_{1S} = 38 mm; number of holes n_B = 63 giving 126 holes in 2 rows)

Ordering data:

Part number and number of sections, length (mm)
 T_{1S} / n_T · T / T_{1S} (mm)
1677-302-32, 5036 mm
38 / 62 · 80 / 38 mm