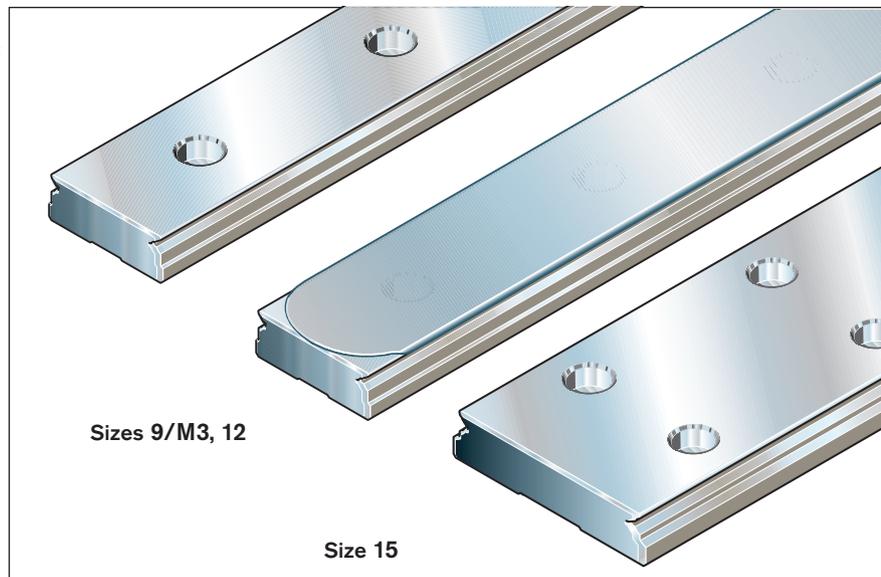


BNS – wide, miniature ball guide rail without / with cover strip R0455

For runner blocks R0443 and R0441
 Mounting hole pattern, size 9/M3, 12:
 – single row
 Mounting hole pattern, size 15:
 – double row
 Guide rails made of corrosion-resistant, martensitic steel.



Part numbers for guide rails

Size	Accuracy class	Part numbers for wide guide rails	
		Part number, length L (mm) without cover strip	with cover strip
9/M3	P	R0455 802 31,....	R0455 862 31,....
	H	R0455 803 31,....	R0455 863 31,....
	N	R0455 804 31,....	R0455 864 31,....
12	P	R0455 202 31,....	R0455 262 31,....
	H	R0455 203 31,....	R0455 263 31,....
	N	R0455 204 31,....	R0455 264 31,....
15	P	R0455 502 31,....	R0455 562 31,....
	H	R0455 503 31,....	R0455 563 31,....
	N	R0455 504 31,....	R0455 564 31,....

Recommended rail lengths

$$L = n_B \cdot T - 4$$

L = rail length (mm)
 T = hole spacing (mm)
 n_B = number of holes per row

Ordering Examples

☞ If no T₁ is specified by the customer, both ends of the guide rail will be identical. The rail lengths were calculated using the formula for recommended rail lengths.

Ordering example 2

(up to L_{max} with cover strip):
 Guide rail size 9/M3, accuracy class H, recommended rail length 926 mm (30 · T, number of holes n_B = 31, T₁ at one end of guide rail = 4.5 mm)
 Ordering data:
R0455 863 31, 926 mm, T₁ = 4.5 mm
 (At the other end of the guide rail T₁ = 21.5 mm for production reasons)

Ordering example 3

(composite rail over L_{max}):
 Guide rail size 15, accuracy class N, recommended rail length 1436 mm, 2 sections (35 · T, number of holes n_B = 36 per row, T₁ is identical at both ends of the composite guide rail)
 Ordering data: **R0455 504 32, 1436 mm**

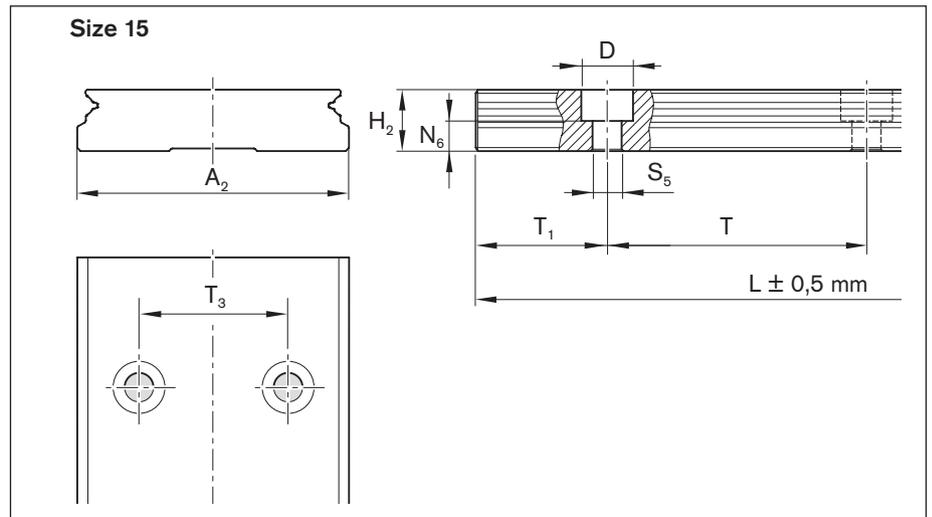
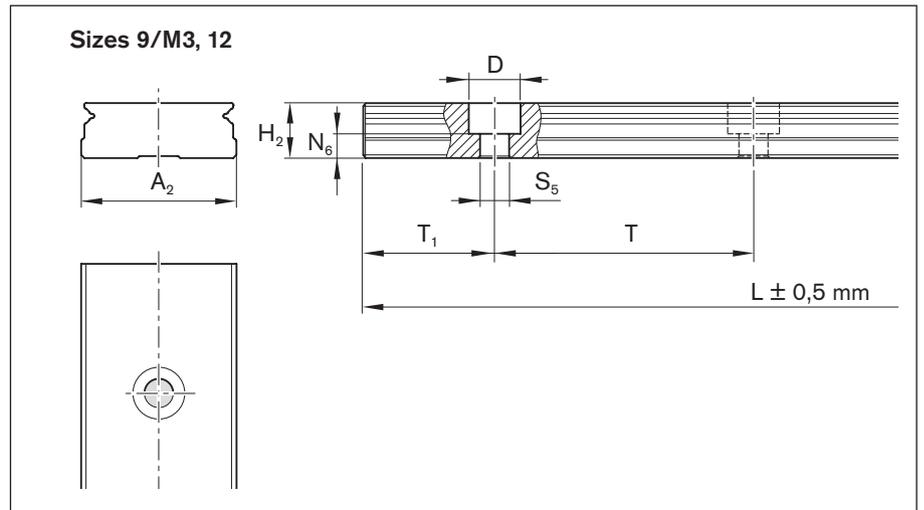
Number of sections

Ordering example 1

(up to L_{max}):
 Guide rail size 12, accuracy class P, recommended rail length 836 mm (20 · T, number of holes n_B = 21, T₁ is identical at both ends of the guide rail)
 Ordering data: **R0455 202 31, 836 mm**

Ordering example 4

(one-piece over L_{max}):
 Guide rail size 12, accuracy class P, recommended rail length 1636 mm (40 · T, number of holes n_B = 41, T₁ is identical at both ends of the guide rail)
 Ordering data: **R0455 202 31, 1636 mm**

Dimensions and weights

Size	Dimensions (mm)										Weight (g/100 mm)
	A ₂	H ₂ ¹⁾	N ₆	D	S ₅	T _{1min}	T _{1max}	T	T ₃	L _{1max} ²⁾³⁾	
9/M3	18	7.5	2.7	6.0	3.5	6.0	25.5	30	–	1000	92
12	24	8.5	3.7	8.0	4.5	6.0	34.5	40	–	1000	145
15	42	9.5	4.7	8.0	4.5	6.0	34.5	40	23	2000	286

1) Dimensions without cover strip

2) For rail lengths longer than L_{max} factory-made mating sections are joined end-to-end.

3) For special cases one-piece guide rails up to 2000 mm length possible (please ask).

Note on adjacent structures

Permissible mounting hole tolerances for adjacent structures with one-piece guide rails.

Size	Hole position tolerance (mm)
9/M3 - 15	∅ 0.2