

NSR-TBC

LM Guide

B Product Specifications

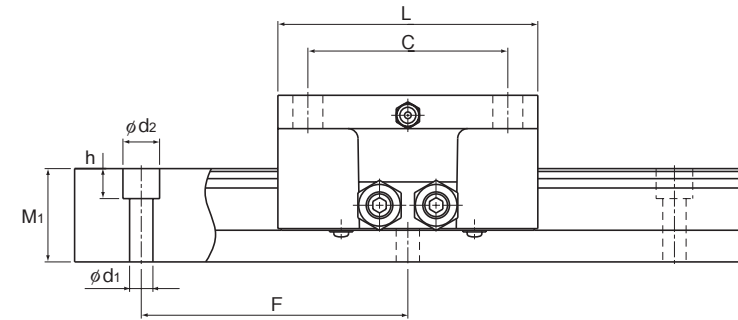
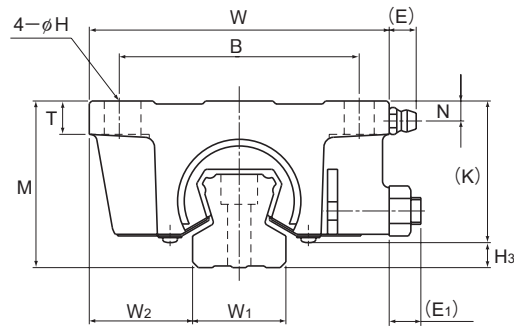
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Model NSR-TBC

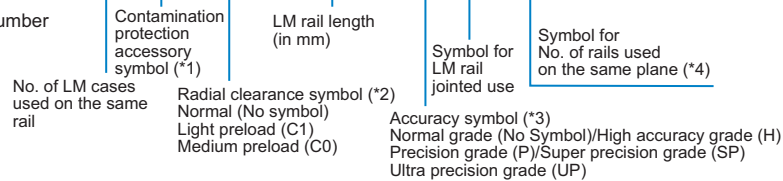


Unit: mm

Model No.	Outer dimensions			LM casing dimensions									Grease nipple	H ₃	LM rail dimensions						Basic load rating		Static Permissible Moment* kN-m		Mass	
	Height	Width	Length	B	C	H	T	K	N	E	E ₁	W ₁ ±0.05			W ₂	M ₁	Pitch F	Pitch d ₁ × d ₂ × h	Length* Max	C kN	C ₀ kN	M _A kN-m		LM casing kg	LM rail kg/m	
	M	W	L																			Double casings	Double casings			
NSR 20TBC	40	70	67	55	50	6.6	8	34.5	5.5	8.5	7	A-M6F	5.5	23	23.5	23	60	6 × 9.5 × 8.5	2200	9.41	18.6	0.31	0.27	0.62	3.1	
NSR 25TBC	50	90	78	72	60	9	10	43.5	6	8.5	7.5	A-M6F	6.5	28	31	28	80	7 × 11 × 9	3000	14.9	26.7	0.53	0.46	1.13	4.7	
NSR 30TBC	60	100	90	82	72	9	12	51	8	8.5	9.5	A-M6F	9	34	33	34.5	80	7 × 11 × 9	3000	22.5	38.3	0.85	0.74	1.8	7.2	
NSR 40TBC	75	120	110	100	80	11	13	64	10	8.5	12	A-M6F	10.5	45	37.5	44.5	105	9 × 14 × 12	3000	37.1	62.2	1.7	1.5	3.5	12.2	
NSR 50TBC	82	140	123	116	95	14	15	74	9	15	15	A-PT1/8	8	48	46	47.5	120	11 × 17.5 × 14	3000	55.1	87.4	2.7	2.4	5.2	14.3	
NSR 70TBC	105	175	150	150	110	14	18	95.5	10	15	16.5	A-PT1/8	9.5	63	56	62	150	14 × 20 × 17	3000	90.8	152	9.8	4.9	9.4	27.6	

Model number coding

NSR50TBC 2 UU C1 +1200L P T -II



(*1) See contamination protection accessory on A-368. (*2) See A-115. (*3) See A-119. (*4) See A-59.

Note) This model number indicates that a single-rail unit constitutes one set. (i.e., required number of sets when 2 rails are used in parallel is 2 at a minimum.)

Note) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See B-180.)
 Static permissible moment * : double casings: static permissible moment value with 2 casings closely contacting with each other

Standard Length and Maximum Length of the LM Rail

Table1 shows the standard lengths and the maximum lengths of model NSR-TBC variations. If the maximum length of the desired LM rail exceeds them, jointed rails will be used. Contact THK for details.

For the G dimension when a special length is required, we recommend selecting the corresponding G value from the table. The longer the G dimension is, the less stable the G area may become after installation, thus causing an adverse impact to accuracy.

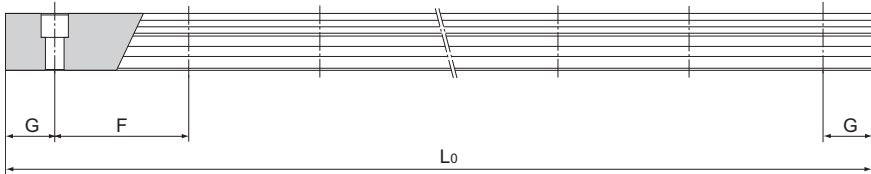


Table1 Standard Length and Maximum Length of the LM Rail for Model NSR-TBC

Unit: mm

Model No.	NSR 20TBC	NSR 25TBC	NSR 30TBC	NSR 40TBC	NSR 50TBC	NSR 70TBC
LM rail standard length (L ₀)	220	280	280	570	780	1270
	280	440	440	885	1020	1570
	340	600	600	1200	1260	2020
	460	760	760	1620	1500	2620
	640	1000	1000	2040	1980	
	820	1240	1240	2460	2580	
	1000	1640	1640	2985	2940	
	1240	2040	2040			
	1600	2520	2520			
	3000	3000				
Standard pitch F	60	80	80	105	120	150
G	20	20	20	22.5	30	35
Max length	2200	3000	3000	3000	3000	3000

Note1) The maximum length varies with accuracy grades. Contact THK for details.

Note2) If jointed rails are not allowed and a greater length than the maximum values above is required, contact THK.