

Specifications

11. Dimensions

NH-AN (High load type/standard, square type)

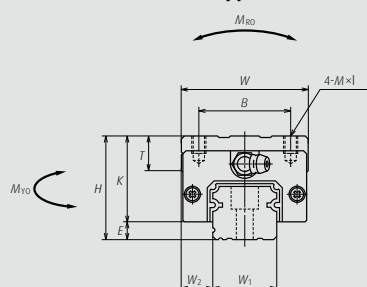
NH-BN (Super-high-load type/long, square type)

(1) Reference number for assembly

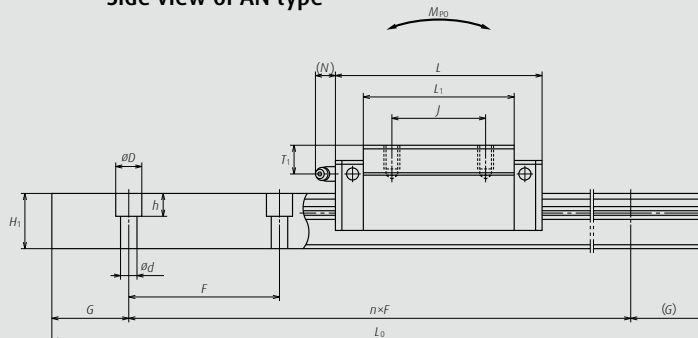
	NH	30	1200	AN	C	2	-**	P5	3	
Series name										Preload code (refer to Table 9 on page 10)
Size										0:Z0, 1:Z1, 3:Z3, T:ZT, Z:ZZ, H:ZH
Rail length (mm)										Accuracy code (refer to Table 9 on page 10)
Ball slide shape code (refer to Fig. 2 on page 6)										Design serial number
Material/surface treatment code (refer to Table 12 on page 12)										Added to the reference number
										Number of ball slides per rail

Assembly (Preloaded assembly, random-matching type)

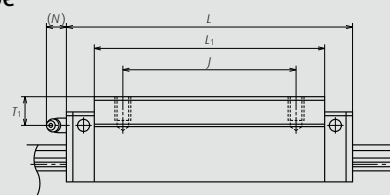
Front view of AN and BN types



Side view of AN type



Side view of BN type



Model No.	Assembly			Ball slide													
	Height H	E	W ₂	Width W	Length L	Mounting hole			L ₁	K	T	Grease fitting			Width W ₁	Height H ₁	
						B	J	M×Pitch×l				Hole size	T ₁	N			
NH15AN	28	4.6	9.5	34	55	26	26	M4×0.7×6	39	23.4	8	ø3	8.5	3.3	15	15	
NH15BN					74				58								
NH20AN	30	5	12	44	69.8	32	36	M5×0.8×6	50	25	12	M6×0.75	5	11	20	18	
NH20BN					91.8		50		72								
NH25AN	40	7	12.5	48	79	35	35	M6×1×9	58	33	12	M6×0.75	10	11	23	22	
NH25BN					107		50		86								
NH30AN	45	9	16	60	85.6	40	40	M8×1.25×10	59	36	14	M6×0.75	10	11	28	26	
NH30BN					124.6		60		98								
NH35AN	55	9.5	18	70	109	50	50	M8×1.25×12	80	45.5	15	M6×0.75	15	11	34	29	
NH35BN					143		72		114								
NH45AN	70	14	20.5	86	139	60	60	M10×1.5×17	105	56	17	Rc1/8	20	13	45	38	
NH45BN					171		80		137								
NH55AN	80	15	23.5	100	163	75	75	M12×1.75×18	126	65	18	Rc1/8	21	13	53	44	
NH55BN					201		95		164								
NH65AN	90	16	31.5	126	193	76	70	M16×2×20	147	74	23	Rc1/8	19	13	63	53	
NH65BN					253		120		207								

Notes: 1) External appearance of stainless steel ball slides differs from those of carbon steel ball slides.

(2) Reference number for random-matching type

Ball Slide

Random-matching ball slide series code

NAH: NH Series random-matching ball slide

Size

Ball slide shape code

(refer to Fig. 2 on page 6)

NAH 30 AN S Z L

Option code

-L: Equipped with NSK K1-L

-K: Equipped with NSK K1

-F: Fluoride low temperature chrome plating + AS2 grease

-F50: Fluoride low temperature chrome plating + LG2 grease

Preload code

No code: Fine clearance, Z: Slight preload, H: Medium preload

Material code

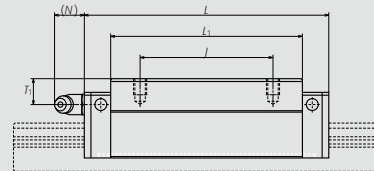
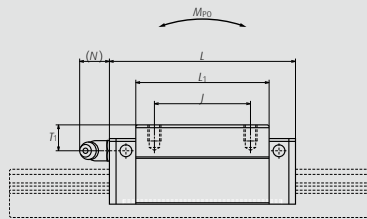
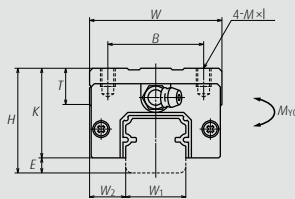
No code: Special high carbon steel (NSK standard),

S: Stainless steel

AN and BN types

AN type

BN type



Rail

Random-matching rail series code

N1H: NH Series random-matching rail

Size

Rail length (mm)

Rail shape code: L

L: Standard

Material/surface treatment code (refer to Table 12 on page 12)

N1H 30 1200 L C N - ** PC Z

Preload code

(refer to Table 9 on page 10)

T: Fine clearance,

Z: Slight preload

(common rail for slight or medium preload)

Accuracy code

PH: High precision grade random-matching type

PC: Normal grade random-matching type

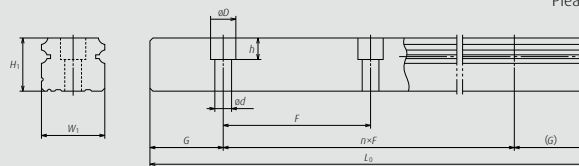
Design serial number

Added to the reference number

Butting rail specification*

N: Non-butting; L: Butting specification

*Please consult with NSK for butting rail specification.



Unit: mm

Rail					Basic load rating								Weight	
Pitch F	Mounting bolt hole d×D×h	G (reference)	Max. length L _{0max} (for stainless)	2)Dynamic		Static C ₀ (N)	Static moment (N·m)						Ball slide (kg)	Rail (kg/m)
				[50km] C ₅₀ (N)	[100km] C ₁₀₀ (N)		M _{RO}	M _{p0}		M _{y0}				
								(One slide)	(Two slides)	(One slide)	(Two slides)			
60	4.5×7.5×5.3	20.0	2,980 (1,800)	14,200	11,300	20,700	108	94.5	575	79.5	480	0.18	1.6	
				18,100	14,400	32,000	166	216	1,150	181	965	0.26		
60	6×9.5×8.5	20.0	3,960 (3,500)	23,700	18,800	32,500	219	185	1,140	155	955	0.33	2.6	
				30,000	24,000	50,500	340	420	2,230	355	1,870	0.48		
60	7×11×9	20.0	3,960 (3,500)	33,500	26,800	46,000	360	320	1,840	267	1,540	0.55	3.6	
				45,500	36,500	71,000	555	725	3,700	610	3,100	0.82		
80	9×14×12	20.0	4,000 (3,500)	41,000	32,500	51,500	490	350	2,290	292	1,920	0.77	5.2	
				61,000	48,500	91,500	870	1,030	5,600	865	4,700	1.3		
80	9×14×12	20.0	4,000	62,500	49,500	80,500	950	755	4,500	630	3,800	1.5	7.2	
				81,000	64,500	117,000	1,380	1,530	8,350	1,280	7,000	2.1		
105	14×20×17	22.5	3,990	107,000	84,500	140,000	2,140	1,740	9,750	1,460	8,150	3.0	12.3	
				131,000	104,000	187,000	2,860	3,000	15,600	2,520	13,100	3.9		
120	16×23×20	30.0	3,960	158,000	125,000	198,000	3,600	3,000	16,300	2,510	13,700	4.7	16.9	
				193,000	153,000	264,000	4,850	5,150	26,300	4,350	22,100	6.1		
150	18×26×22	35.0	3,900	239,000	190,000	281,000	6,150	4,950	27,900	4,150	23,400	7.7	24.3	
				310,000	246,000	410,000	8,950	10,100	51,500	8,450	43,500	10.8		

2) The basic load rating complies with ISO standard. (ISO14728-1 and ISO14728-2)

C₅₀: the basic dynamic load rating for 50 km rating fatigue life, C₁₀₀: the basic dynamic load rating for 100 km rating fatigue life.