

11. Dimensions

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

(1) Reference number for preloaded assembly

NH 30 1200 ANC 2 -** P5 3															
Model				Preload code (refer to Table 9 on page 5) 0 : Z0,1 : Z1,3 : Z3,T : ZT,Z : ZZ,H : ZH											
Size				Accuracy code (refer to Table 9 on page 5)											
Rail length (mm)				Design serial number Added to the reference number											
Ball slide shape code (refer to Fig. 2 on page 3)				Number of ball slides per rail											
Material/surface treatment code (refer to Table 16 on page 7) C: Special high carbon steel (NSK standard); K: Stainless steel															

(2) Reference number for interchangeable type

NAH 30 ANSZ -L															
Ball slide				Option code											
Interchangeable ball slide model code NAH: NH model interchangeable ball slide				-L: Equipped with NSK K1-L -F: Fluoride low temperature chrome plating + AS2 grease -F50: Fluoride low temperature chrome plating + LG2 grease											
Size				Preload code No code: Fine clearance, Z: Slight preload, H: Medium preload											
Ball slide shape code (refer to Fig. 2 on page 3)				Material code No code: Special high carbon steel (NSK standard), S: Stainless steel											

N1H 30 1200 LCN -** PC Z															
Rail				Preload code											
Interchangeable rail model code N1H: NH model interchangeable rail				T: Fine clearance, Z: Slight preload (common rail for slight or medium preload) (refer to Table 9 on page 5)											
Size				Accuracy code PH: High precision grade interchangeable type PC: Normal grade interchangeable type											
Rail length (mm)				Design serial number Added to the reference number											
Rail shape code: L L: Standard				Butting rail specification* N: Non-butting; L: Butting specification											
Material/surface treatment code (refer to Table 16 on page 7)				*Please consult with NSK for butting rail specification.											

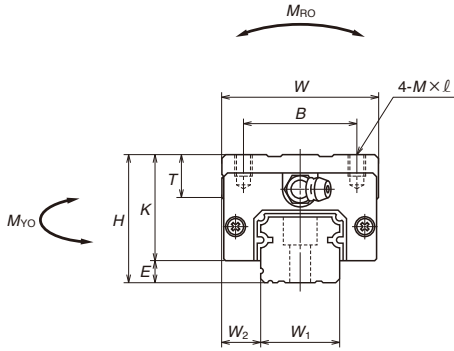
The Click!Speedy™ NSK Linear Guide Quick Delivery System uses a different numbering system.
For details, please refer to the Click!Speedy general catalog CAT. No. E3191.

Model No.	Assembly			Ball slide											Width		Height
	Height			Width	Length	Mounting hole						Grease fitting					
												Hole size					
	<i>H</i>	<i>E</i>	<i>W₂</i>	<i>W</i>	<i>L</i>	<i>B</i>	<i>J</i>	<i>M</i> ×Pitch× <i>ℓ</i>	<i>L₁</i>	<i>K</i>	<i>T</i>		<i>T₁</i>	<i>N</i>	<i>W₁</i>	<i>H₁</i>	
NH15AN NH15BN	28	4.6	9.5	34	55 74	26	26	M4×0.7×6	39 58	23.4	8	φ3	8.5	3.3	15	15	
NH20AN NH20BN	30	5	12	44	69.8 91.8	32	36 50	M5×0.8×6	50 72	25	12	M6×0.75	5	11	20	18	
NH25AN NH25BN	40	7	12.5	48	79 107	35	35 50	M6×1×9	58 86	33	12	M6×0.75	10	11	23	22	
NH30AN NH30BN	45	9	16	60	85.6 124.6	40	40 60	M8×1.25×10	59 98	36	14	M6×0.75	10	11	28	26	
NH35AN NH35BN	55	9.5	18	70	109 143	50	50 72	M8×1.25×12	80 114	45.5	15	M6×0.75	15	11	34	29	
NH45AN NH45BN	70	14	20.5	86	139 171	60	60 80	M10×1.5×17	105 137	56	17	Rc1/8	20	13	45	38	
NH55AN NH55BN	80	15	23.5	100	163 201	75	75 95	M12×1.75×18	126 164	65	18	Rc1/8	21	13	53	44	
NH65AN NH65BN	90	16	31.5	126	193 253	76	70 120	M16×2×20	147 207	74	23	Rc1/8	19	13	63	53	

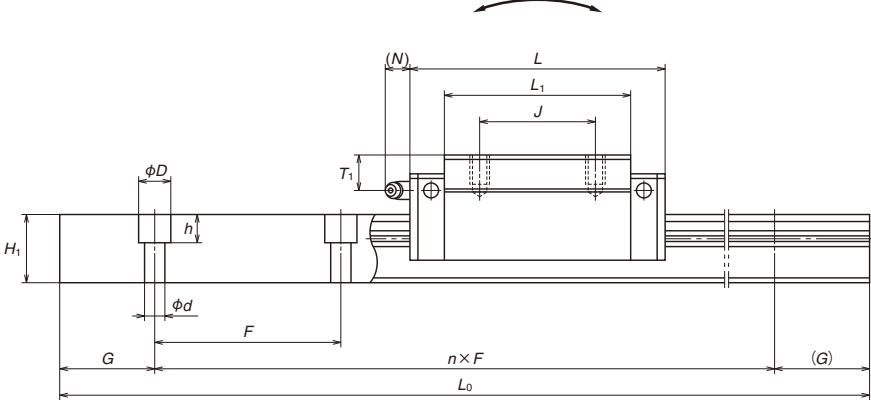
Notes: 1) The external appearance of stainless steel ball slides differs slightly from of carbon steel ball slides.

Assembly (Preloaded assembly or assembled interchangeable slide/rail.)

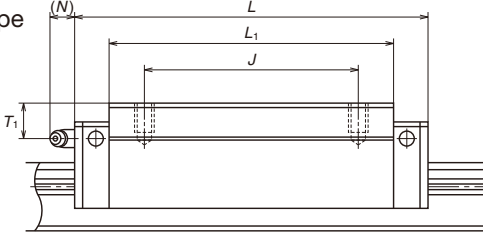
Front view of AN and BN types



Side view of AN type

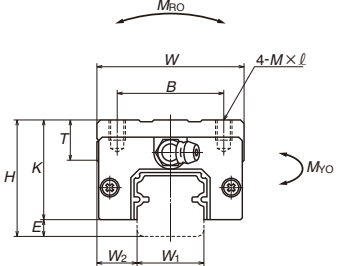


Side view of BN type

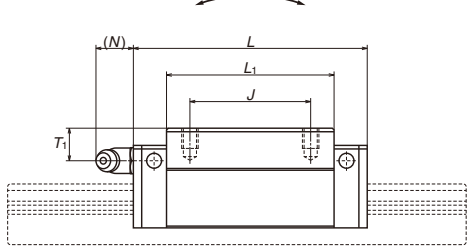


Ball slide of interchangeable type

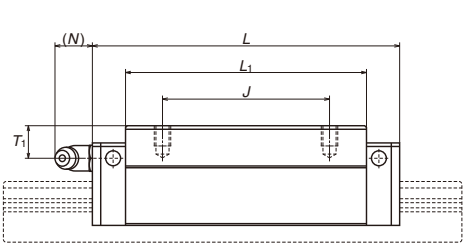
AN and BN types



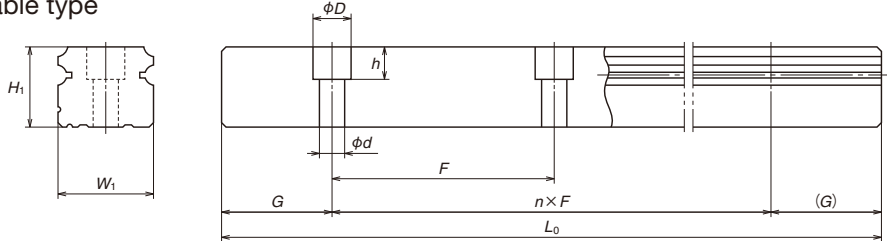
AN type



BN type



Rail of interchangeable type



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)	M _{RO}	Static moment (N·m)				Ball slide (kg)	Rail (kg/m)
				[50km] C ₅₀ (N)	[100km] C ₁₀₀ (N)			(One slide)	(Two slides)	(One slide)	(Two slides)		
60	4.5×7.5×5.3	20	2 980 (1 800)	14 200 18 100	11 300 14 400	20 700 32 000	108 166	94.5 216	575 1 150	79.5 181	480 965	0.18 0.26	1.6
60	6×9.5×8.5	20	3 960 (3 500)	23 700 30 000	18 800 24 000	32 500 50 500	219 340	185 420	1 140 2 230	155 355	955 1 870	0.33 0.48	2.6
60	7×11×9	20	3 960 (3 500)	33 500 45 500	26 800 36 500	46 000 71 000	360 555	320 725	1 840 3 700	267 610	1 540 3 100	0.55 0.82	3.6
80	9×14×12	20	4 000 (3 500)	41 000 61 000	32 500 48 500	51 500 91 500	490 870	350 1 030	2 290 5 600	292 865	1 920 4 700	0.77 1.3	5.2
80	9×14×12	20	4 000	62 500 81 000	49 500 64 500	80 500 117 000	950 1 380	755 1 530	4 500 8 350	630 1 280	3 800 7 000	1.5 2.1	7.2
105	14×20×17	22.5	3 990	107 000 131 000	84 500 104 000	140 000 187 000	2 140 2 860	1 740 3 000	9 750 15 600	1 460 2 520	8 150 13 100	3.0 3.9	12.3
120	16×23×20	30	3 960	158 000 193 000	125 000 153 000	198 000 264 000	3 600 4 850	3 000 5 150	16 300 26 300	2 510 4 350	13 700 22 100	4.7 6.1	16.9
150	18×26×22	35	3 900	239 000 310 000	190 000 246 000	281 000 410 000	6 150 8 950	4 950 10 100	27 900 51 500	4 150 8 450	23 400 43 500	7.7 10.8	24.3

2) The basic load ratings comply with ISO standards. (ISO14728-1 and ISO14728-2)

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