

NH-EM (High-load type/standard, flange type)
NH-GM (Super-high-load type/long, flange type)

(1) Reference number for assembly

NH 30 1200 EMC 2 -** P5 3															
Series name				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 random-matching type

NAH 30 EMSZ -K															
Ball slide				Option code											
Random-matching ball slide series code NAH: NH Series random-matching ball slide				-K: Equipped with NSK K1 -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											

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

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

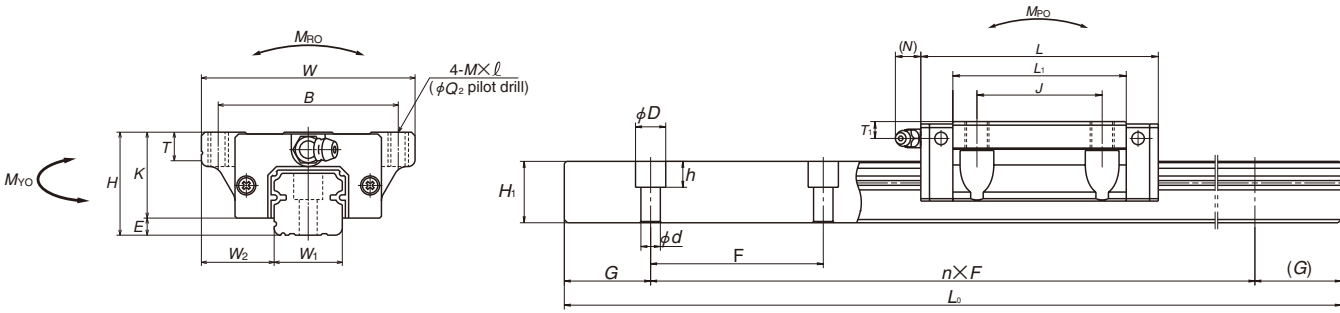
Model No.	Assembly			Ball slide												Width	Height
	Height	E	W ₂	Width	Length	Mounting hole				L ₁	K	T	Grease fitting				
						B	J	M×Pitch×ℓ	Q ₂				Hole size	T ₁	N		
NH15EM NH15GM	24	4.6	16	47	55 74	38	30	M5×0.8×7	4.4	39 58	19.4	8	φ3	4.5	3.3	15	15
NH20EM NH20GM	30	5	21.5	63	69.8 91.8	53	40	M6×1×9.5	5.3	50 72	25	10	M6×0.75	5	11	20	18
NH25EM NH25GM	36	7	23.5	70	79 107	57	45	M8×1.25×10 (M8×1.25×11.5)	6.8	58 86	29	11 (12)	M6×0.75	6	11	23	22
NH30EM NH30GM	42	9	31	90	98.6 124.6	72	52	M10×1.5×12 (M10×1.5×14.5)	8.6	72 98	33	11 (15)	M6×0.75	7	11	28	26
NH35EM NH35GM	48	9.5	33	100	109 143	82	62	M10×1.5×13	8.6	80 114	38.5	12	M6×0.75	8	11	34	29
NH45EM NH45GM	60	14	37.5	120	139 171	100	80	M12×1.75×15	10.5	105 137	46	13	Rc1/8	10	13	45	38
NH55EM NH55GM	70	15	43.5	140	163 201	116	95	M14×2×18	12.5	126 164	55	15	Rc1/8	11	13	53	44
NH65EM NH65GM	90	16	53.5	170	193 253	142	110	M16×2×24	14.6	147 207	74	23	Rc1/8	19	13	63	53

Notes: 1) Parenthesized dimensions are for items made of stainless steel.
2) External appearance of stainless steel ball slides differs from those of carbon steel ball slides.

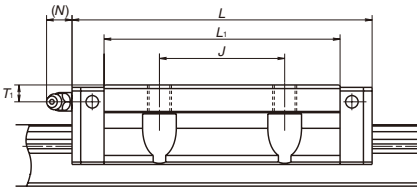
Assembly (Preloaded assembly, random-matching type)

Front view of EM and GM types

Side view of EM type



Side view of GM type

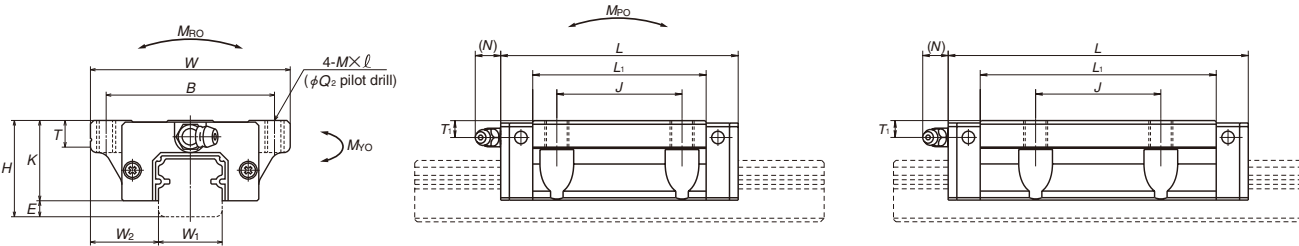


Ball slide of random-matching type

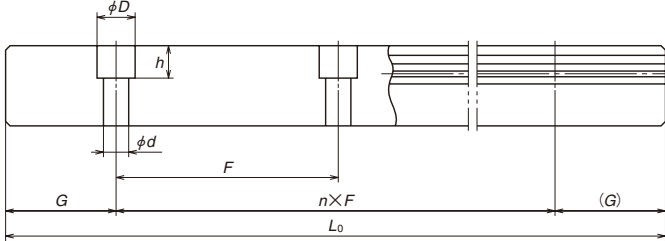
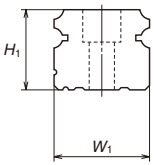
EM and GM types

EM type

GM type



Rail of random-matching type



Unit: mm

Rail				Basic load rating								Weight	
Pitch F	Mounting bolt hole d×D×h	G	Max. length L _{0max} (reference) () for stainless	3) 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)			M _{PO} (One slide)	M _{PO} (Two slides)	M _{YO} (One slide)	M _{YO} (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	0.17 0.25	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	0.45 0.65	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	0.63 0.93	3.6
80	9×14×12	20	4 000 (3 500)	47 000 61 000	37 500 48 500	63 000 91 500	600 870	505 1 030	3 150 5 600	425 865	2 650 4 700	1.2 1.6	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	1.7 2.4	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 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	5 6.5	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	10 14.1	24.3

3) The basic load rating comply with the 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