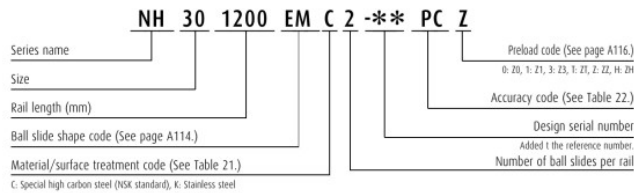
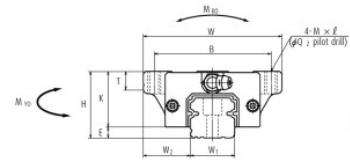


# A-5-1.1 NH Series

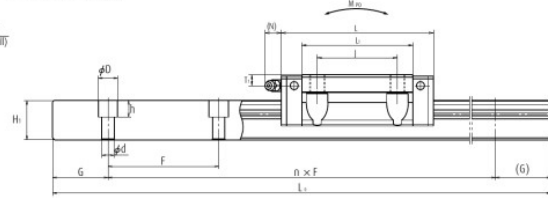
NH-EM (High-load type / Standard)  
NH-GM (Super-high-load type / Long)



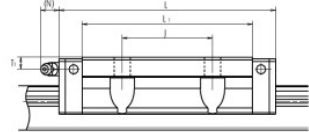
Front view of EM and GM types



Side view of EM type



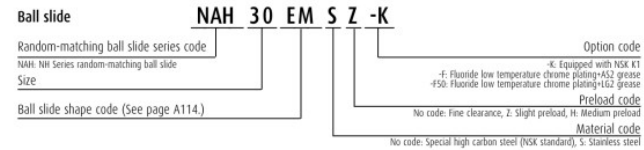
Side view of GM type



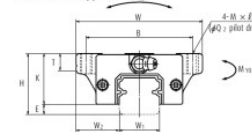
Model No.	Assembly			Ball slide										Width	Height		
	Height	E	W <sub>2</sub>	Width		Mounting hole				Grease fitting							
				W	L	B	J	M × pitch × ℓ	Q <sub>2</sub>	L <sub>1</sub>	K	T	Hole size			T <sub>1</sub>	N
NH15EM	24	4.6	16	47	55	38	30	M5×0.8×7	4.4	39	19.4	8	φ 3	4.5	3.3	15	15
NH15GM	24	4.6	16	47	74	38	30	M5×0.8×7	4.4	58	19.4	8	φ 3	4.5	3.3	15	15
NH20EM	30	5	21.5	63	69.8	53	40	M6×1×9.5	5.3	50	25	10	M6×0.75	5	11	20	18
NH20GM	30	5	21.5	63	91.8	53	40	M6×1×9.5	5.3	72	25	10	M6×0.75	5	11	20	18
NH25EM	36	7	23.5	70	79	57	45	M8×1.25×10	6.8	58	29	11	M6×0.75	6	11	23	22
NH25GM	36	7	23.5	70	107	57	45	(M8×1.25×11.5)	6.8	86	29	(12)	M6×0.75	6	11	23	22
NH30EM	42	9	31	90	98.6	72	52	M10×1.5×12	8.6	72	33	11	M6×0.75	7	11	28	26
NH30GM	42	9	31	90	124.6	72	52	(M10×1.5×14.5)	8.6	98	33	(15)	M6×0.75	7	11	28	26
NH35EM	48	9.5	33	100	109	82	62	M10×1.5×13	8.6	80	38.5	12	M6×0.75	8	11	34	29
NH35GM	48	9.5	33	100	143	82	62	M10×1.5×13	8.6	114	38.5	12	M6×0.75	8	11	34	29
NH45EM	60	14	37.5	120	139	100	80	M12×1.75×15	10.5	105	46	13	Rc1/8	10	13	45	38
NH45GM	60	14	37.5	120	171	100	80	M12×1.75×15	10.5	137	46	13	Rc1/8	10	13	45	38
NH55EM	70	15	43.5	140	163	116	95	M14×2×18	12.5	126	55	15	Rc1/8	11	13	53	44
NH55GM	70	15	43.5	140	201	116	95	M14×2×18	12.5	164	55	15	Rc1/8	11	13	53	44
NH65EM	90	16	53.5	170	193	142	110	M16×2×24	14.6	147	74	23	Rc1/8	19	13	63	53
NH65GM	90	16	53.5	170	253	142	110	M16×2×24	14.6	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.

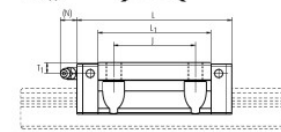
## Reference number for ball slide of random-matching type



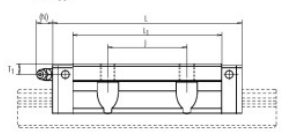
EM and GM types



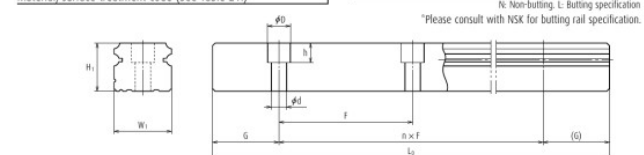
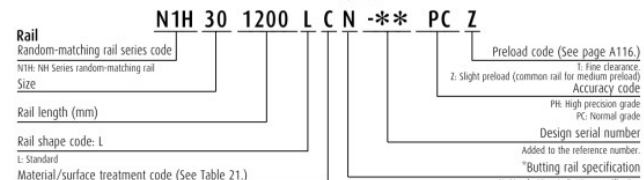
EM type



GM type



## Reference number for rail of random-matching type



Unit: mm

Pitch	Mounting bolt hole d × D × h	G (reference)	Maximum length L <sub>max</sub> (reference)	Basic load rating						Ball slide (kg)	Rail (kg/m)		
				3) Dynamic		Static		Static moment (N·m)					
				[50km] C <sub>50</sub> (N)	[100km] C <sub>100</sub> (N)	C <sub>0</sub> (N)	M <sub>R0</sub>	M <sub>PO</sub>				M <sub>YO</sub>	
60	4.5×7.5×5.3	20	2 980	14 200	11 300	20 700	108	94.5	575	79.5	480	0.17	1.6
60	4.5×7.5×5.3	20	(1 800)	18 100	14 400	32 000	166	216.0	1 150	181.0	965	0.25	1.6
60	6×9.5×8.5	20	3 960	23 700	18 800	32 500	219	185.0	1 140	155.0	955	0.45	2.6
60	6×9.5×8.5	20	(3 500)	30 000	24 000	50 500	340	420.0	2 230	355.0	1 870	0.65	2.6
60	7×11×9	20	3 960	33 500	26 800	46 000	360	320.0	1 840	267.0	1 540	0.63	3.6
60	7×11×9	20	(3 500)	45 500	36 500	71 000	555	725.0	3 700	610.0	3 100	0.93	3.6
80	9×14×12	20	4 000	47 000	37 500	63 000	600	505.0	3 150	425.0	2 650	1.2	5.2
80	9×14×12	20	(3 500)	61 000	48 500	91 500	870	1 030.0	5 600	865.0	4 700	1.6	5.2
80	9×14×12	20	4 000	62 500	49 500	80 500	950	755.0	4 500	630.0	3 800	1.7	7.2
80	9×14×12	20	4 000	81 000	64 500	117 000	1 380	1 530.0	8 350	1 280.0	7 000	2.4	7.2
105	14×20×17	22.5	3 990	107 000	84 500	140 000	2 140	1 740.0	9 750	1 460.0	8 150	3	12.3
105	14×20×17	22.5	3 990	131 000	104 000	187 000	2 860	3 000.0	15 600	2 520.0	13 100	3.9	12.3
120	16×23×20	30	3 960	158 000	125 000	198 000	3 600	3 000.0	16 300	2 510.0	13 700	5	16.9
120	16×23×20	30	3 960	193 000	153 000	264 000	4 850	5 150.0	26 300	4 350.0	22 100	6.5	16.9
150	18×26×22	35	3 900	239 000	190 000	281 000	6 150	4 950.0	27 900	4 150.0	23 400	10	24.3
150	18×26×22	35	3 900	310 000	246 000	410 000	8 950	10 100.0	51 500	8 450.0	43 500	14.1	24.3

3) The basic load rating comply with the ISO standard. (ISO 14728-1, 14728-2)  
C<sub>50</sub>: the basic dynamic load rating for 50 km rated fatigue life C<sub>100</sub>: the basic dynamic load rating for 100 km rated fatigue life  
The basic static load rating shows static permissible load.  
4) High-precision grade and medium preload of random-matching type are available for high-carbon steel products.