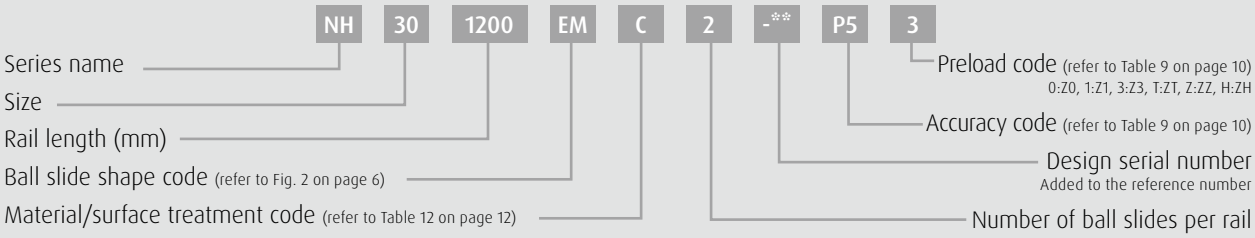
Specifications

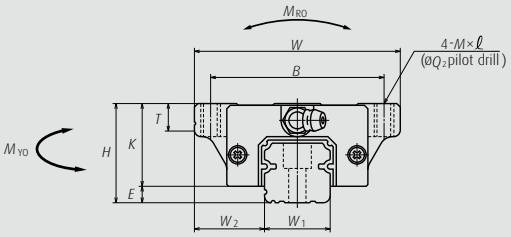
NH-EM (High-load type/standard, flange type)
NH-GM (Super-high-load type/long, flange type)

(1) Reference number for assembly

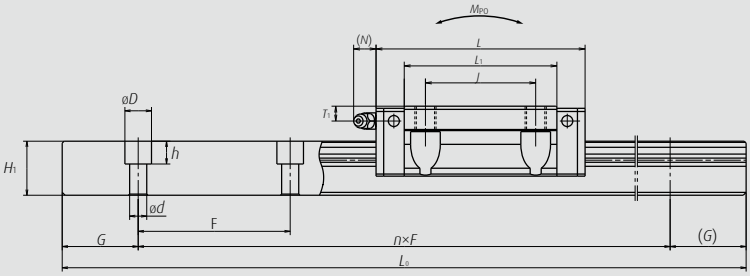


Assembly (Preloaded assembly, random-matching type)

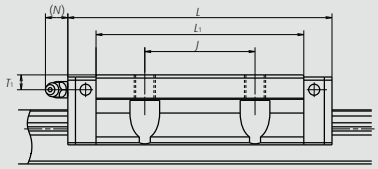
Front view of EM and GM types



Side view of EM type



Side view of GM type



Model No.	Assembly			Ball slide												Rail	
	Height H	E	W_2	Width W	Length L	Mounting hole B	Mounting hole J	Mounting hole M×Pitch×l	Q_2	L_1	K	T	Grease fitting Hole size	Grease fitting T_1	Grease fitting N	Width W_1	Height H_1
NH15EM NH15GM	24	4.6	16	47	55 74	38	30	M5×0.8×7	4.4	39 58	19.4	8	ø3	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.

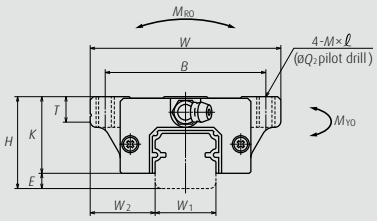
(2) Reference number for random-matching type

Ball Slide

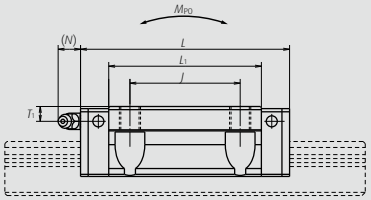
NAH | 30 | EM | S | Z | L

- 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)
- 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

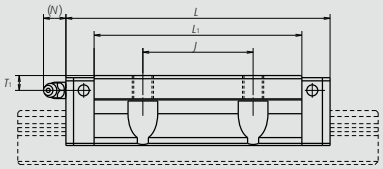
EM and GM types



EM type



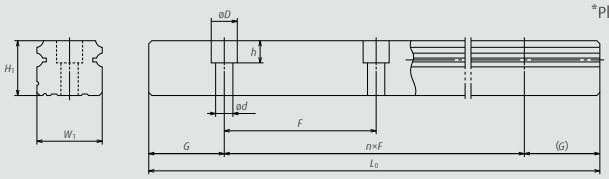
GM type



Rail

N1H | 30 | 1200 | L | C | N | -** | PC | Z

- 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)
- 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)	[3]Dynamic [50km] C_{50}(N)	[3]Dynamic [100km] C_{100}(N)	Static C_0 (N)	Static moment (N·m) M_{RO}	M_{PO} (One slide)	M_{PO} (Two slides)	M_{YO} (One slide)	M_{YO} (Two slides)	Ball slide (kg)	Rail (kg/m)
60	4.5×7.5×5.3	20.0	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	20.0	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	20.0	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	20.0	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	20.0	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	30.0	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	35.0	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 complies with ISO standard. (ISO14728-1 and ISO14728-2),
C_{50}: the basic dynamic load rating for 50 km rating fatigue life, C_{100}: the basic dynamic load rating for 100 km rating fatigue life;