

NS-CL (Medium-load type/short, square low-profile type)
NS-AL (High-load type/standard, square low-profile type)

(1) Reference number for assembly

NS 30 1200 AL C 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

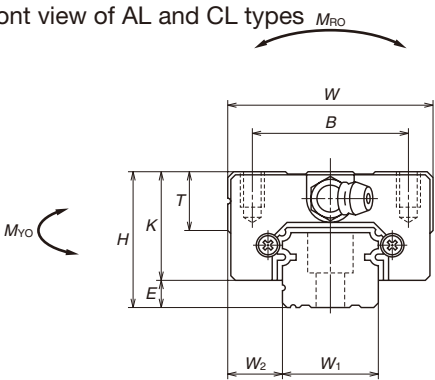
NAS 30 AL SZ -K													
Ball slide				Option code									
Random-matching ball slide series code NAS: NS Series random-matching ball slide				-K: Equipped with NSK K1 -F: Fluoride low temperature chrome plating + AS2 grease -F50: Fluoride low temperature chrome plating + LG2 grease									
Size				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									

N1S 30 1200 LCN -** PC Z													
Rail				Preload code									
Random-matching rail series code N1S: NS 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 PH: High precision grade random-matching type PC: Normal grade random-matching type									
Rail length (mm)				Design serial number Added to the reference number									
Rail shape code: L L: Standard, T: The rail mounting bolt hole M4 for NS15				Butting rail specification* N: Non-butting; L: Butting specification *Please consult with NSK for butting rail specification.									
Material/surface treatment code (refer to Table 16 on page 7)													

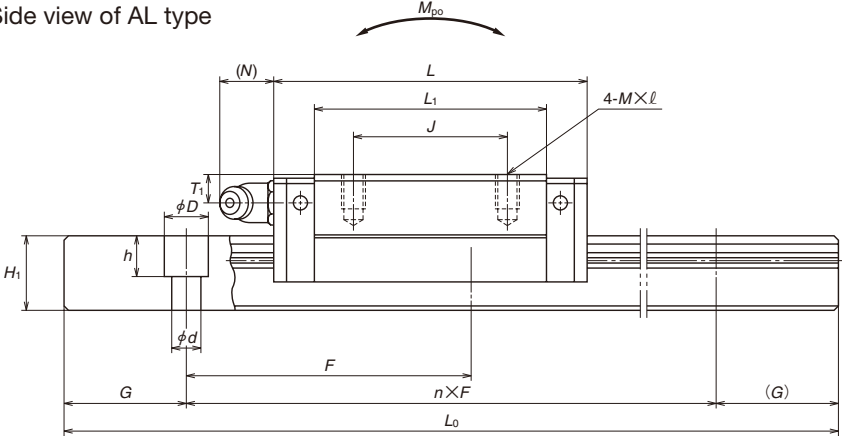
Click!Speedy™ NSK Linear Guide Quick Delivery System uses a new numbering system.
For details, please refer to the Click!Speedy general catalog CAT. No. E3191.

Assembly (Preloaded assembly, random-matching type)

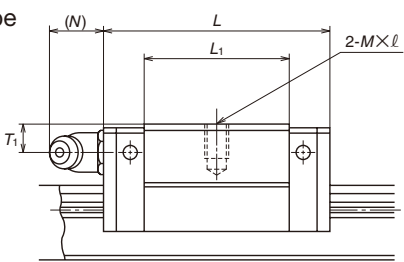
Front view of AL and CL types



Side view of AL type

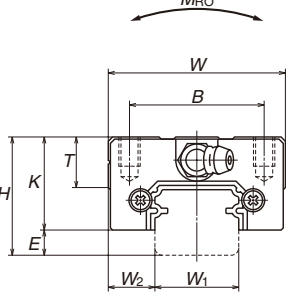


Side view of CL type

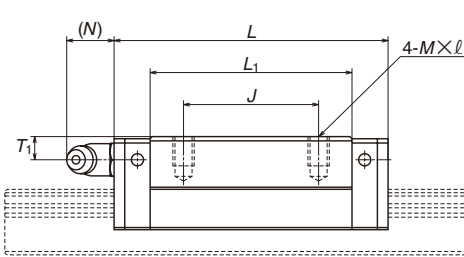


Ball slide of random-matching type

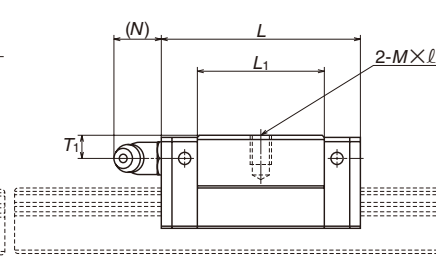
AL and CL types



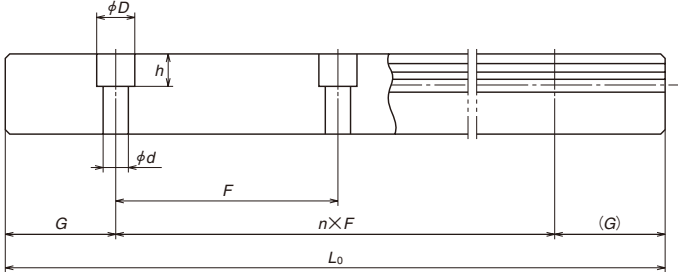
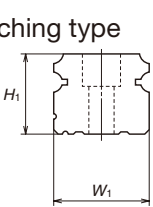
AL type



CL type



Rail of random-matching type



Model No.	Assembly			Ball slide											Width	Height
	Height			Width	Length	Mounting hole						Grease fitting				
												Hole size				
	H	E	W_2	W	L	B	J	$M \times \text{Pitch} \times \ell$	L_1	K	T				W_1	H_1
NS15CL NS15AL	24	4.6	9.5	34	40.4 56.8	26	— 26	M4×0.7×6	23.6 40	19.4	10	ϕ 3	6	3	15	12.5
NS20CL NS20AL	28	6	11	42	47.2 65.2	32	— 32	M5×0.8×7	30 48	22	12	M6×0.75	5.5	11	20	15.5
NS25CL NS25AL	33	7	12.5	48	59.6 81.6	35	— 35	M6×1×9	38 60	26	12	M6×0.75	7	11	23	18
NS30CL NS30AL	42	9	16	60	67.4 96.4	40	— 40	M8×1.25×12	42 71	33	13	M6×0.75	8	11	28	23
NS35CL NS35AL	48	10.5	18	70	77 108	50	— 50	M8×1.25×12	49 80	37.5	14	M6×0.75	8.5	11	34	27.5

Notes: 1) External appearance of stainless steel ball slides differs from those of carbon steel ball slides.
2) 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

Rail				Basic load rating								Weight	
Pitch	Mounting bolt hole $d \times D \times h$	G	Max. length L_{0max} (reference)	2) Dynamic		Static	Static moment (N·m)					Ball slide	Rail
F				[50km] $C_{50}(N)$	[100km] $C_{100}(N)$	C_0 (N)	M_{RO}	M_{PO} (One slide)(Two slides)		M_{YO} (One slide)(Two slides)	(kg)	(kg/m)	
60	*4.5×7.5×5.3 3.5×6×4.5	20	2 920 (1 800)	7 250 11 200	5 750 8 850	9 100 16 900	45.5 84.5	24.5 77	196 470	20.5 64.5	165 395	0.14 0.20	1.4
60	6×9.5×8.5	20	3 960 (3 500)	10 600 15 600	8 400 12 400	13 400 23 500	91.5 160	46.5 133	330 755	39 111	279 630	0.19 0.28	2.3
60	7×11×9	20	3 960 (3 500)	17 700 26 100	14 000 20 700	20 800 36 500	164 286	91 258	655 1 470	76 217	550 1 230	0.34 0.51	3.1
80	7×11×9	20	4 000 (3 500)	24 700 38 000	19 600 30 000	29 600 55 000	282 520	139 435	1 080 2 650	116 365	905 2 220	0.58 0.85	4.8
80	9×14×12	20	4 000 (3 500)	34 500 52 500	27 300 42 000	40 000 74 500	465 865	220 695	1 670 4 000	185 580	1 400 3 350	0.86 1.3	7.0

*1) Standard rail mounting bolt hole for NS15 is specified as hole for M4 (4.5 × 7.5 × 5.3).
Please contact NSK to request a different hole for M3 (3.5 × 6 × 4.5).

Unit: mm