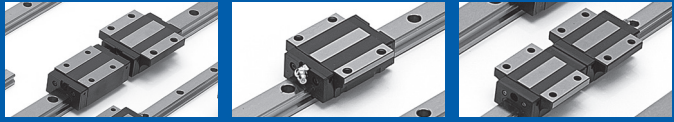


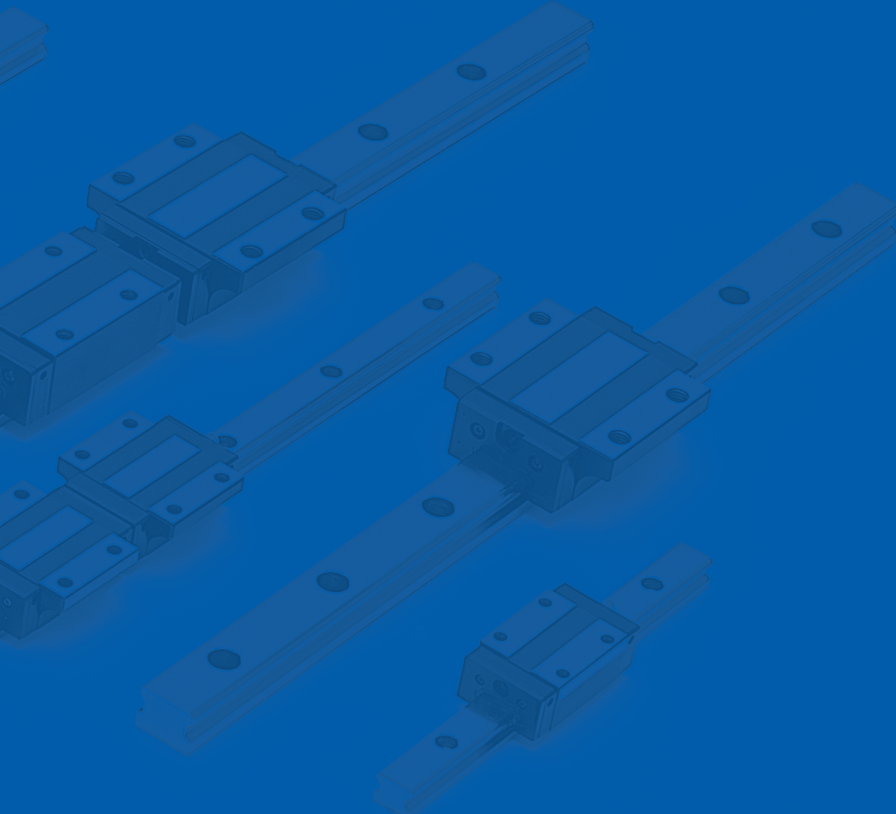
# Linear Guide

A

Linear Guide



MCS-N  
MCS-SN  
MCS-F  
MCS-SF  
MCH-N  
MCH-LN  
MCH-F  
MCH-LF



# 형번 표기

MCS 20 N - 2 - 1200L - G20 - H - C1

시리즈 : MCS(컴팩트 타입)  
MCH(고하중 타입)

크기 : 15, 20, 25

블록 타입 : (1)중하중  
SN : 스퀘어 타입  
SF : 플랜지 타입  
(2)고하중  
N : 스퀘어 타입  
F : 플랜지 타입  
(3)초고하중  
LN : 스퀘어 타입  
LF : 플랜지 타입

블록 수량 : 1, 2, 3 ...

레일 길이 (mm)

레일 G값 치수

정도 등급 : 보통급(무기호)  
상급(H)  
정밀급(P)  
초정밀급(SP)

예압 등급 : 보통급(무기호)  
경예압(C1)  
중예압(C0)

# 예압 등급

## MCS형

단위:μm

표시기호	보통	경예압	중예압
형번	무기호	C1	C0
MCS15	-4 ~ +2	-10 ~ -4	
MCS20	-5 ~ +2	-12 ~ -5	-17 ~ -12
MCS25	-6 ~ +3	-15 ~ -6	-21 ~ -15
MCS30	-7 ~ +4	-18 ~ -7	-26 ~ -18
MCS35	-8 ~ +4	-20 ~ -8	-31 ~ -20

## MCH형

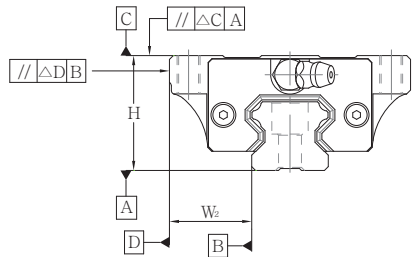
단위:μm

표시기호	보통	경예압	중예압
형번	무기호	C1	C0
MCH15	-4 ~ +2	-12 ~ -4	
MCH20	-5 ~ +2	-14 ~ -5	-23 ~ -14
MCH25	-6 ~ +3	-16 ~ -6	-26 ~ -16
MCH30	-7 ~ +4	-19 ~ -7	-31 ~ -19
MCH35	-8 ~ +4	-22 ~ -8	-35 ~ -22

# 정도 등급

주행 평행도 대조표 (표1)

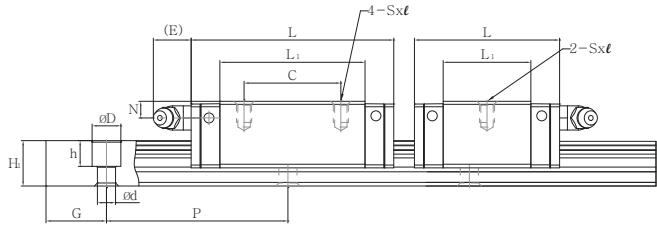
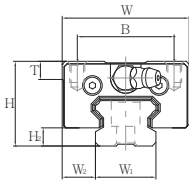
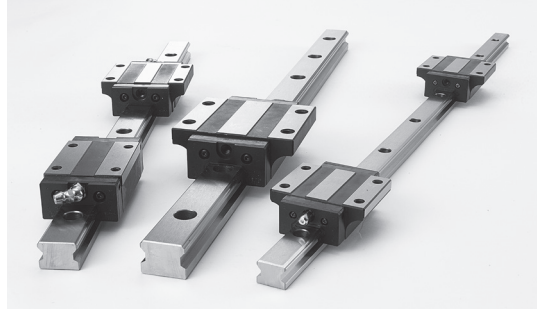
레일 길이(mm)		주행 평행도 값( $\mu\text{m}$ )		
이상	또는 이하	N	H	P
0	315	9	6	3
315	400	11	8	4
400	500	13	9	5
500	630	16	11	6
630	800	18	12	7
800	1000	20	14	8
1000	1250	22	16	10
1250	1600	25	18	11
1600	2000	28	20	13
2000	2500	30	22	15
2500	3000	32	24	16
3000	3500	33	25	17
3500	4000	34	26	18



## 정도표

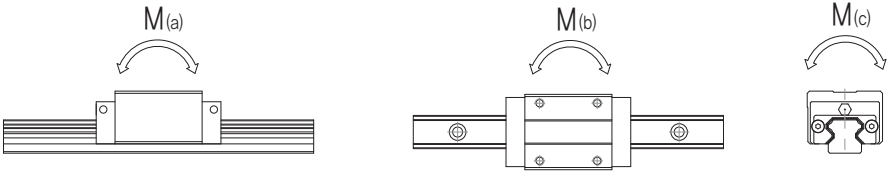
모델 번호	항 목	정도 등급				
		일반급 N	상급 H	정밀급 P	초정밀급 SP	초고정밀급 UP
15 20	높이에 대한 허용오차 H	$\pm 0.1$	$\pm 0.03$	0 -0.03	0 -0.015	0 -0.008
	높이차 $\Delta H$	0.02	0.01	0.006	0.004	0.003
	거리에 대한 허용오차 $W_2$	$\pm 0.1$	$\pm 0.03$	0 -0.03	0 -0.015	0 -0.008
	거리 차이 $W_2(\Delta W_2)$	0.02	0.01	0.006	0.004	0.003
	표면 C와 표면 A의 주행 평행도	$\Delta C$ (표1 참조)				
	표면 D와 표면 B의 주행 평행도	$\Delta D$ (표1 참조)				
25 30 35	높이에 대한 허용오차 H	$\pm 0.1$	$\pm 0.04$	0 -0.04	0 -0.02	0 -0.01
	높이차 $\Delta H$	0.02	0.015	0.007	0.005	0.003
	거리에 대한 허용오차 $W_2$	$\pm 0.1$	$\pm 0.04$	0 -0.04	0 -0.02	0 -0.01
	거리 차이 $W_2(\Delta W_2)$	0.03	0.015	0.007	0.005	0.003
	표면 C와 표면 A의 주행 평행도	$\Delta C$ (표1 참조)				
	표면 D와 표면 B의 주행 평행도	$\Delta D$ (표1 참조)				

# MCS-N MCS-SN



(Unit : mm)

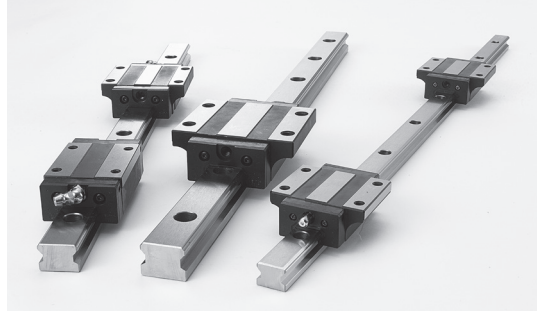
Model Number	Dimensions Of Assembly					Dimensions Of Block								Dimensions Of Rail				
	H	W	L	W <sub>2</sub>	H <sub>2</sub>	B	C	S x ℓ	L <sub>1</sub>	T	N	E	Grease Nipple	W <sub>1</sub>	H <sub>1</sub>	P	G	D x h X d
MCS 15 SN	24	34	40	9.5	4.5	26	—	M4x6	23.5	6	5.5	5.5	G-M4	15	12.5	60	20	7.5x5,5x4,5
MCS 15 N			57						40.5									
MCS 20 SN	28	42	48	11	6	32	—	M5x7	29	6	55	12	G-M6	20	15	60	20	9.5x8,5x6
MCS 20 N			67						48									
MCS 25 SN	33	48	60.2	12.5	7	35	—	M6x9	38.7	8	6	12	G-M6	23	18	60	20	11x9x7
MCS 25 N			82						60.5									
MCS 30 SN	42	60	68	16	9.5	40	—	M8x12	43.3	8	8	12	G-M6	28	23	80	20	11x9x7
MCS 30 N			96.7						72									
MCS 35 SN	48	70	78	18	9.5	50	—	M8x12	46	12.5	8.5	12	G-M6	34	27.5	80	20	14x12x9
MCS 35 N			112						80									



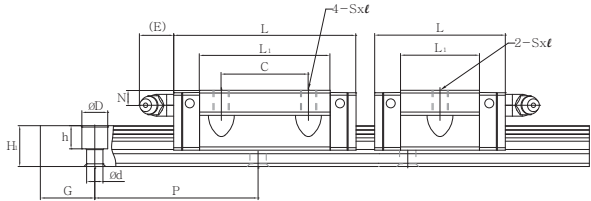
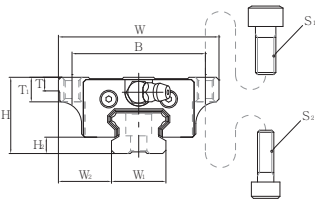
(Unit : mm)

Model Number	Basic Load Rating		Static Rated Moment ( kN · m )					Weight	
	C kN	C0 kN	M(a)		M(b)		M(c)	Block kg	Rail kg/m
			1Block	2Block	1Block	2Block			
MCS 15 SN	6.7	9.6	0.04	0.25	0.03	0.24	0.07	0.09	1.2
MCS 15 N	10	16.8	0.10	0.56	0.08	0.56	0.12	0.16	
MCS 20 SN	9.8	14.2	0.07	0.42	0.06	0.38	0.14	0.16	2
MCS 20 N	13.8	23.5	0.17	0.95	0.16	0.94	0.23	0.26	
MCS 25 SN	15.6	22.2	0.13	0.88	0.10	0.87	0.25	0.29	3
MCS 25 N	22.4	36.8	0.33	1.78	0.32	1.78	0.41	0.45	
MCS 30 SN	23.2	31.8	0.21	1.22	0.18	1.28	0.42	0.52	4.4
MCS 30 N	32.8	53.2	0.58	3.10	0.55	3.04	0.73	0.82	
MCS 35 SN	35.6	44.1	0.29	2.34	0.32	2.62	0.70	0.82	6.2
MCS 35 N	52.1	75.6	0.80	5.16	0.88	5.24	1.25	0.13	

# MCS-F MCS-SF

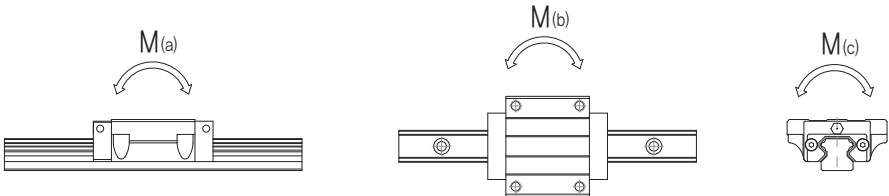


Model Number	Bolt Size	
	S <sub>1</sub>	S <sub>2</sub>
MCS 15	M5	M4
MCS 20	M6	M5
MCS 25	M8	M6



(Unit : mm)

Model Number	Dimensions Of Assembly					Dimensions Of Block									Dimensions Of Rail				
	H	W	L	W <sub>2</sub>	H <sub>2</sub>	B	C	S x ℓ	L <sub>1</sub>	T	T <sub>1</sub>	N	E	Grease Nipple	W <sub>1</sub>	H <sub>1</sub>	P	G	D x h X d
MCS 15 SF	24	52	40	18.5	4.5	41	26	M5x7	23.5	5	7	5.5	5.5	G-M4	15	12.5	60	20	7.5x5.5x4.5
MCS 15 F			57						40.5										
MCS 20 SF	28	59	48	19.5	6	49	32	M6x9	29	5	9	5.5	12	G-M6	20	15	60	20	9.5x8.5x6
MCS 20 F			67						48										
MCS 25 SF	33	73	60.2	25	7	60	35	M8x10	38.7	7	10	6	12	G-M6	23	18	60	20	11x9x7
MCS 25 F			82						60.5										
MCS 30 SF	42	90	68	31	9.5	72	40	M10x10	43.3	7	10	8	12	G-M6	28	23	80	20	11x9x7
MCS 30 F			96.7						43.3										
MCS 35 SF	48	100	78	33	9.5	82	50	M10x13	46	9	13	8.5	12	G-M6	34	27.5	80	20	14x12x9
MCS 35 F			112						46										

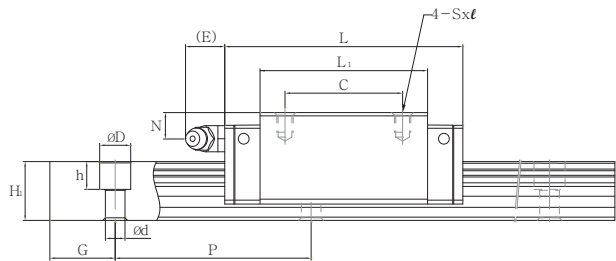
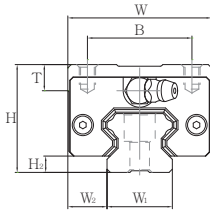
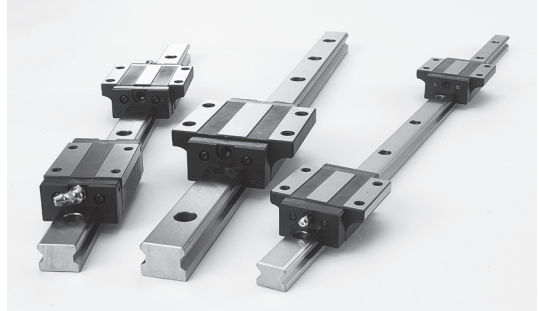


(Unit : mm)

Model Number	Basic Load Rating		Static Rated Moment ( kN · m )					Weight	
	C kN	C0 kN	M(a)		M(b)		M(c)	Block kg	Rail kg/m
			1Block	2Block	1Block	2Block			
MCS 15 SF	6.7	9.6	0.04	0.25	0.03	0.24	0.07	0.12	1.2
MCS 15 F	10	16.8	0.10	0.56	0.08	0.56	0.12	0.21	
MCS 20 SF	9.8	14.2	0.07	0.42	0.06	0.38	0.14	0.20	2
MCS 20 F	13.8	23.5	0.17	0.95	0.16	0.94	0.23	0.34	
MCS 25 SF	15.6	22.2	0.13	0.88	0.10	0.87	0.25	0.39	3
MCS 25 F	22.4	36.8	0.33	1.78	0.32	1.78	0.41	0.60	
MCS 30 SF	23.2	31.8	0.21	1.22	0.18	1.28	0.42	0.65	4.4
MCS 30 F	32.8	53.2	0.58	3.10	0.55	3.04	0.73	1.08	
MCS 35 SF	35.6	44.1	0.29	2.34	0.32	2.62	0.70	0.91	6.2
MCS 35 F	52.1	75.6	0.80	5.16	0.88	5.24	1.25	0.61	

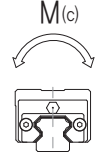
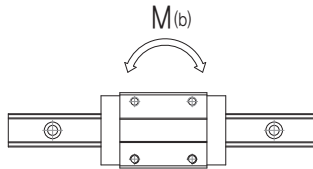
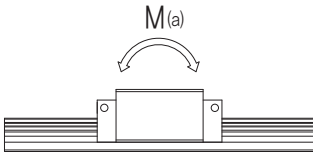


# MCH-N MCH-LN



(Unit : mm)

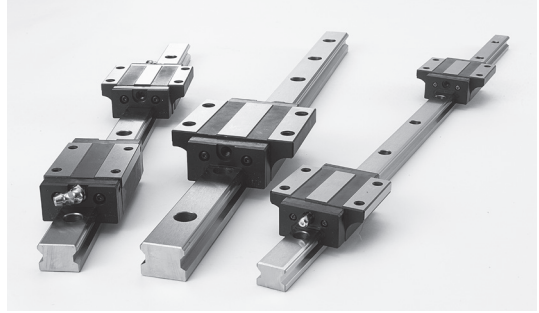
Model Number	Dimensions Of Assembly					Dimensions Of Block								Dimensions Of Rail				
	H	W	L	W <sub>2</sub>	H <sub>2</sub>	B	C	S x ℓ	L <sub>1</sub>	T	N	E	Grease Nipple	W <sub>1</sub>	H <sub>1</sub>	P	G	D x h X d
MCH 15 N	28	34	56,3	9,5	4,1	26	26	M4x5	39,3	7,2	8,3	7	G-M4	15	15	60	20	7,5x5,3x4,5
MCH 20 N	30	44	72,9	12	4,9	32	36	M5x6	51,3	8	5	12	G-M6	20	18	60	20	9,5x8,5x6
MCH 20 LN			88,8				50		67,2									
MCH 25 N	40	48	81,6	12,5	6,4	35	35	M6x8	59	10	10	12	G-M6	23	22	60	20	11x9x7
MCH 25 LN			100,6				50		78									
MCH 30 N	45	60	97	16	8	40	40	M8x10	71,4	11,7	10	12	G-M6	28	26	80	20	14x12x9
MCH 30 LN			119,2				60		93,6									
MCH 35 N	55	70	111,2	18	9,5	50	50	M8x12	81	12,7	15	12	G-M6	34	29	80	20	14x12x9
MCH 35 LN			136,6				72		106,4									



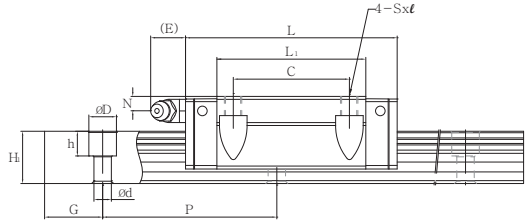
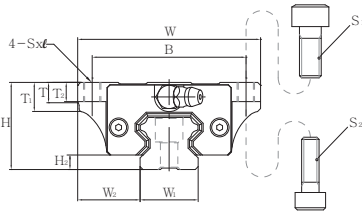
(Unit : mm)

Model Number	Basic Load Rating		Static Rated Moment ( kN · m )					Weight	
	C kN	C0 kN	M(a)		M(b)		M(c)	Block kg	Rail kg/m
			1Block	2Block	1Block	2Block			
MCH 15 N	11,8	18,9	0,11	0,58	0,11	0,58	0,12	0,18	1,5
MCH 20 N	19,2	29,5	0,23	1,40	0,23	1,40	0,29	0,3	2,4
MCH 20 LN	23,3	39,3	0,38	2,16	0,38	2,16	0,38	0,39	
MCH 25 N	28,1	42,4	0,39	2,12	0,39	2,12	0,48	0,52	3,4
MCH 25 LN	34,4	56,6	0,65	3,50	0,65	3,50	0,63	0,68	
MCH 30 N	39,2	57,8	0,62	3,65	0,62	3,65	0,76	0,86	4,8
MCH 30 LN	47,9	77,0	10,50	5,78	10,50	5,78	1,05	1,12	
MCH 35 N	52,0	75,5	0,91	5,45	0,91	5,45	1,25	1,46	6,6
MCH 35 LN	63,6	100,6	1,58	8,48	1,58	8,48	1,67	1,9	

# MCH-F MCH-LF

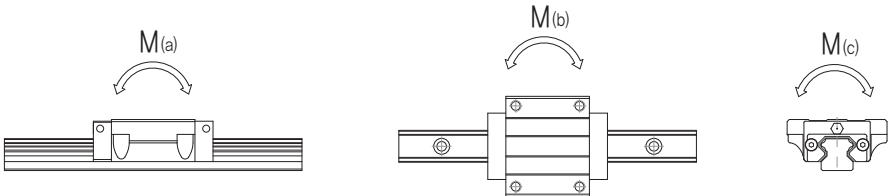


Model Number	Bolt Size	
	S <sub>1</sub>	S <sub>2</sub>
MCH 15	M5	M4
MCH 20	M6	M5
MCH 25	M8	M6



(Unit : mm)

Model Number	Dimensions Of Assembly					Dimensions Of Block										Dimensions Of Rail				
	H	W	L	W <sub>2</sub>	H <sub>2</sub>	B	C	S x ℓ	L <sub>1</sub>	T	T <sub>1</sub>	T <sub>2</sub>	N	E	Grease Nipple	W <sub>1</sub>	H <sub>1</sub>	P	G	D x h X d
MCH 15 F	24	47	56.3	16	4.1	38	30	M5x7	39.3	7	11	7	4.3	7	G-M4	15	15	60	20	7.5x5.3x4.5
MCH 20 F	30	63	72.9	21.5	4.9	53	40	M6x10	51.3	7	10	10	5	12	G-M6	20	18	60	20	9.5x8.5x6
MCH 20 LF			88.8						67.2											
MCH 25 F	36	70	81.6	23.5	6.4	57	45	M8x10	59	11	16	10	6	12	G-M6	23	22	60	20	11x9x7
MCH 25 LF			100.6						78											
MCH 30 F	42	90	97	31	8	72	52	M10x10	71.4	11	18	10	7	12	G-M6	28	26	80	20	14x12x9
MCH 30 LF			119.2						93.6											
MCH 35 F	48	100	111.2	33	9.5	82	62	M10x13	81	13	21	13	8	12	G-M6	34	29	80	20	14x12x9
MCH 35 LF			136.6						106.4											



(Unit : mm)

Model Number	Basic Load Rating		Static Rated Moment ( kN · m )					Weight	
	C kN	C0 kN	M(a)		M(b)		M(c)	Block kg	Rail kg/m
			1Block	2Block	1Block	2Block			
MCH 15 F	11,8	18,9	0,11	0,58	0,11	0,58	0,12	0,18	1,5
MCH 20 F	19,2	29,5	0,23	1,40	0,23	1,40	0,29	0,3	2,4
MCH 20 LF	23,3	39,3	0,38	2,16	0,38	2,16	0,38	0,39	
MCH 25 F	28,1	42,4	0,39	2,12	0,39	2,12	0,48	0,52	3,4
MCH 25 LF	34,4	56,6	0,65	3,50	0,65	3,50	0,63	0,68	
MCH 30 F	39,2	57,8	0,62	3,65	0,62	3,65	0,76	0,86	4,8
MCH 30 LF	47,9	77,0	10,50	5,78	10,50	5,78	1,05	1,12	
MCH 35 F	52,0	75,5	0,91	5,45	0,91	5,45	1,25	1,46	6,6
MCH 35 LF	63,6	100,6	1,58	8,48	1,58	8,48	1,67	1,9	