

cpc CHIEFTEK PRECISION Co., LTD.



- ARC/HRC/ERC Standard 4-Row Ball Bearing Linear Guide
- WRC Wide 4-Row Ball Bearing Linear Guide
- ARD/HRD/ERD Standard 4-Row Ball Bearing Linear Guide Equipped with Cover Strip
- ARR/HRR/LRR Standard 4-Row Roller-type Linear Guide

* cpc reserves the right to revise any information(technical detail) any time without notice, for printing mistakes or any other incidental mistakes. We take no responsibility.

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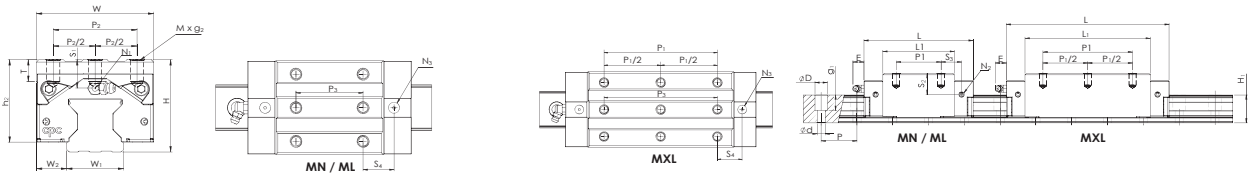
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PAT. LG-01-W51-EN

Dimensions Table



HRR MN/ML/MXL Series

Model Code	Mounting Dimensions			Rail Dimensions (mm)			Block Dimensions (mm)										Block Dimensions (mm)										Load Capacities (kN)				Static Moment (Nm)				Weight		Model Code
	H	W ₂	W ₁ S ₁	H ₁	P	Dxdxg ₁	W	L	L ₁	h ₂	P ₁	P ₁ /2	P ₂	P ₂ /2	P ₃	MxG ₂	M ₁	T	N ₁	N ₂	N ₃	E	S ₁	S ₂	S ₃	S ₄	C _{so} 100km	C _o	M _{to}	M _{po}	My _o	Block (g)	Rail (g/m)				
HRR 15MN	28	9.5	15	16.4	30	7.5x4.5x5.3	34	68.4	46	25.1	26	-	26	13	26	M4x8	-	8	M3x6	M3x4.5	P3	5.3	7.5	10.6	1.5	1.4	15.6	4.3	400	320	320	210	1500	HRR 15MN			
HRR 15ML								83.4	61		26	-			26																					HRR 15ML	
HRR 20MN	34	12	20	21	30	9.5x6x8.5	44	85.6	60	29.6	36	-	32	16	36	M5x8	-	9	M4x8	M4x6.5	P3	6	8.4	12.3	1.7	1.6.5	28.4	76.8	900	730	730	420	2400	HRR 20MN			
HRR 20ML								106.6	81		50	-			50																				HRR 20ML		
HRR 25MN	40	12.5	23	23	30	11x7x9	48	95	67	35	35	-			35	M6x10	-	10	M6x8.5	M6x7.5	P4	12	10.5	15	21.4	20.5	31.6	84	1200	950	950	620	3000	HRR 25MN			
HRR 25ML								114	86		50	-	35	17.5	50																				HRR 25ML		
HRR 35MN	55	18	34	31	40	14x9x17	70	133.4	105.4	49	72	-	50	25	72	M8x16	-	13	M6x12	M6x8	P5	12	17	23.4	23.1	22.2	44.8	132	1900	2300	2300	950	5740	HRR 35MN			
HRR 35ML								122	84		60	-			50																				HRR 35ML		
HRR 45MN	70	20.5	45	38	52.5	20x14x17	86	147.5	109.5	62	80	-	60	30	80	M10x20	-	13	M6x12	M6x8	P6	12	24.6	31.8	26.7	26.7	68.9	196	3525	3226	3226	2100	10000	HRR 45MN			
HRR 45ML								156	110		60	-			60																				HRR 45ML		
HRR 55MN	80	23.5	53	45	60	24x16x20	100	177.5	139.5	70	95	-	75	37.5	95	M12x19	-	18	M6x12	M6x9	P6	12	25	32	46.7	43.5	118	333	8450	7700	7700	4300	12700	HRR 55MN			
HRR 55ML								182.4	130		75	-			75																				HRR 55ML		
HRR 55VXL								233.4	181		150	75			150																					HRR 55VXL	
HRR 55VXL								290.4	238		150	75			150																					HRR 55VXL	

- N₂ = Injecting holes
- N₃ = Oiling site for lubrication from above
- N₂, N₃ will be sealed before shipment, please open it when first using the product.
- Please refer to the catalog P11 for the size of the screw hole of the reinforcement sheet.

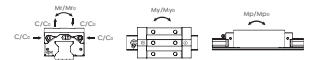
The above rolling load capacities and static moments are calculated according to the ISO 14728 standard. The rolling life for basic dynamic load ratings is defined as the total 100km travel distance for 95% of a group of identical linear guides, under the same conditions and free from any material damage caused by rolling fatigue.

HRR MN/ML/MXL Series...C Series (Roller chain type)

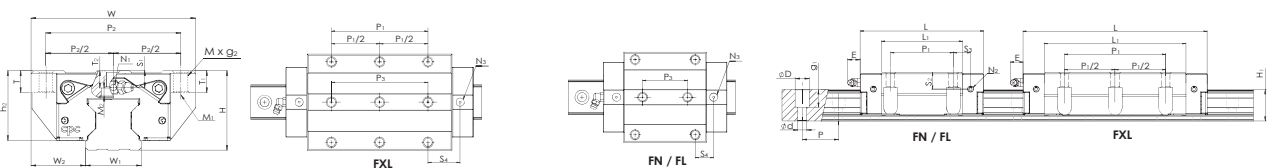
Model Code	Mounting Dimensions			Rail Dimensions (mm)			Block Dimensions (mm)										Block Dimensions (mm)										Load Capacities (kN)				Static Moment (Nm)				Weight		Model Code
	H	W ₂	W ₁ S ₁	H ₁	P	Dxdxg ₁	W	L	L ₁	h ₂	P ₁	P ₁ /2	P ₂	P ₂ /2	P ₃	MxG ₂	M ₁	T	N ₁	N ₂	N ₃	E	S ₁	S ₂	S ₃	S ₄	C _{so} 100km	C _o	M _{to}	M _{po}	My _o	Block (g)	Rail (g/m)				
HRR 15MN...C	28	9.5	15	16.4	30	7.5x4.5x5.3	34	68.4	46	25.1	26	-	26	13	26	M4x8	-	8	M3x6	M3x4.5	P3	5.3	7.5	10.6	1.5	1.4	19.5	36.8	360	280	280	210	1500	HRR 15MN...C			
HRR 15ML...C								83.4	61		26	-			26																					HRR 15ML...C	
HRR 20MN...C	34	12	20	21	30	9.5x6x8.5	44	85.6	60	29.6	36	-	32	16	36	M5x8	-	9	M4x8	M4x6.5	P3	6	8.4	12.3	1.7	1.6.5	35.5	65.8	840	670	670	420	2400	HRR 20MN...C			
HRR 20ML...C								106.6	81		50	-			50																					HRR 20ML...C	
HRR 25MN...C	40	12.5	23	23	30	11x7x9	48	95	67	35	35	-			35	M6x10	-	10	M6x8.5	M6x7.5	P4	12	10.5	15	21.4	20.5	40	76	1100	850	850	620	3000	HRR 25MN...C			
HRR 25ML...C								114	86		50	-	35	17.5	50																					HRR 25ML...C	
HRR 35MN...C	55	18	34	31	40	14x9x17	70	133.4	105.4	49	72	-	50	25	72	M8x16	-	13	M6x12	M6x8	P5	12	17	23.4	23.1	22.2	56	120	1680	2000	2000	950	5740	HRR 35MN...C			
HRR 35ML...C								122	84		60	-			50																					HRR 35ML...C	
HRR 45MN...C	70	20.5	45	38	52.5	20x14x17	86	147.5	109.5	62	80	-	60	30	80	M10x20	-	13	M6x12	M6x8	P6	12	24.6	31.8	26.7	27.7	102.5	224	4047	4695	4695	2700	10000	HRR 45MN...C			
HRR 45ML...C								156	110		60	-			60																					HRR 45ML...C	
HRR 55MN...C	80	23.5	53	45	60	24x16x20	100	177.5	139.5	70	95	-	75	37.5	95	M12x19	-	18	M6x12	M6x9	P6	12	25	32	46.7	43.5	147.5	288	7550	6900	6900	4300	12700	HRR 55MN...C			
HRR 55ML...C								182.4	130		75	-			75																					HRR 55ML...C	
HRR 55VXL...C								233.4	181		150	75			150																					HRR 55VXL...C	
HRR 55VXL...C								290.4	238		150	75			150																					HRR 55VXL...C	

- N₂ = Injecting holes
- N₃ = Oiling site for lubrication from above
- N₂, N₃ will be sealed before shipment, please open it when first using the product.
- Please refer to the catalog P11 for the size of the screw hole of the reinforcement sheet.

The measured value is the dynamic load rating value with roller chain C₁₀₆₆. The above static load rating and the static moment are calculated according to the ISO 14728 standard.



Dimensions Table



HRR FN/FL/FXL Series

Model Code	Mounting Dimensions			Rail Dimensions (mm)			Block Dimensions (mm)															Load Capacities (kN)				Static Moment (Nm)			Weight		Model Code								
	H	W ₂	W ₁ S ₀₁₆	H _i	P	Dxdxg ₁	W	L	L _i	h ₂	P ₁	P ₁ /2	P ₂	P ₂ /2	P ₃	MxG ₂	M ₁	M ₂	T	T ₁	T ₂	N ₁	N ₂	N ₃	E	S ₁	S ₂	S ₃	S ₄	C _{30g} 100km		C ₃	M _{rs}	M _{ps}	M _{yo}	Block (g)	Rail (g/m)		
HRR 15FN	24	16	15	16.4	30	7.5x4.5x5.3	47	68.4	46	21.1	30	-	38	19	26	M5x7	M4	2.8	8	7	4	M3x6	M3x4.5	P3	5.3	3.5	6.6	13	12	15.6	43	400	320	320	230	1500	HRR 15FN		
HRR 15FL								83.4	61																														HRR 15FL
HRR 20FN	30	21.5	20	21	30	9.5x6x8.5	63	85.6	60	25.6	40	-	53	26.5	35	M6x10	M5	3.5	10	10	4.8	M4x8	M4x6.5	P3	6	4.4	8.3	15	14.5	28.4	76.8	900	730	730	490	2400	HRR 20FN		
HRR 20FL								106.6	81																													HRR 20FL	
HRR 25FN								95	67																													HRR 25FN	
HRR 25FL	36	23.5	23	23	30	11x7x9	70	114	86	31	45	-	57	28.5	40	M8x10	M6	4	10	10	8.3	M6x8.5	M6x7.5	P4	12	6.5	11	25.9	25	38.3	108	1550	1550	960	3000	HRR 25FL			
HRR 25FXL								133.4	105.4		70	35																										HRR 25FXL	
HRR 35FN								122	84																													HRR 35FN	
HRR 35FL	48	33	34	31	40	14x9x17	100	147.5	109.5	42	62	-	82	41	52	M10x13	M8	5	13	13	10.2	M6x12	M6x8	P5	12	10	16.4	31.7	31.7	68.9	196	3525	3226	2400	5740	HRR 35FL			
HRR 35FXL								177.5	139.5		100	50																										HRR 35FXL	
HRR 45FN								156	110																													HRR 45FN	
HRR 45FL	60	37.5	45	38	52.5	20x14x17	120	191	145	52	80	-	100	50	60	M12x15	M10	6	15	15	14.8	M6x12	M6x8	P6	12	14.6	21.8	46.7	43.5	118	333	8450	7700	4700	10000	HRR 45FL			
HRR 45FXL								226	180		120	60																										HRR 45FXL	
HRR 55FN								182.4	130																													HRR 55FN	
HRR 55FL	70	43.5	53	45	60	24x16x20	140	233.4	181	60	95	-	116	58	70	M14x18	M12	7	18	18	16.8	M6x12	M6x9	P6	12	15	22	57	55.2	171	476	13900	13950	8400	12700	HRR 55FL			
HRR 55FXL								290.4	238		150	75																										HRR 55FXL	

- N₂ = Injecting holes
- N₃ = O-ring size for lubrication from above
- N₂, N₃ will be sealed before shipment, please open it when first using the product.
- MxG₂, M₁: Screw size according to ISO 4762-12.9
- M₂: countersink screw size according to DIN 7984-8.8
- Please refer to the catalog P11 for the size of the screw hole of the reinforcement sheet.

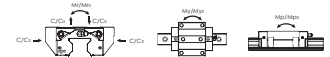
The above rating load capacities and static moments are calculated according to the ISO 14728 standard. The rating life for basic dynamic load ratings is defined as the total 100km travel distance for 90% of a group of identical linear guides, under the same conditions and free from any material damage caused by rolling fatigue.

HRR FN/FL/FXL Series...C Series (Roller chain type)

Model Code	Mounting Dimensions			Rail Dimensions (mm)			Block Dimensions (mm)															Load Capacities (kN)				Static Moment (Nm)			Weight		Model Code									
	H	W ₂	W ₁ S ₀₁₆	H _i	P	Dxdxg ₁	W	L	L _i	h ₂	P ₁	P ₁ /2	P ₂	P ₂ /2	P ₃	MxG ₂	M ₁	M ₂	T	T ₁	T ₂	N ₁	N ₂	N ₃	E	S ₁	S ₂	S ₃	S ₄	C _{30g} 100km		C ₃	M _{rs}	M _{ps}	M _{yo}	Block (g)	Rail (g/m)			
HRR 15FN...C	24	16	15	16.4	30	7.5x4.5x5.3	47	68.4	46	21.1	30	-	38	19	26	M5x7	M4	2.8	8	7	4	M3x6	M3x4.5	P3	5.3	3.5	6.6	13	12	19.5	36.8	360	280	280	230	1500	HRR 15FN...C			
HRR 15FL...C								83.4	61																															HRR 15FL...C
HRR 20FN...C	30	21.5	20	21	30	9.5x6x8.5	63	85.6	60	25.6	40	-	53	26.5	35	M6x10	M5	3.5	10	10	4.8	M4x8	M4x6.5	P3	6	4.4	8.3	15	14.5	35.5	65.8	840	670	670	490	2400	HRR 20FN...C			
HRR 20FL...C								106.6	81																														HRR 20FL...C	
HRR 25FN...C								95	67																														HRR 25FN...C	
HRR 25FL...C	36	23.5	23	23	30	11x7x9	70	114	86	31	45	-	57	28.5	40	M8x10	M6	4	10	10	8.3	M6x8.5	M6x7.5	P4	12	6.5	11	25.9	25	48	96	1360	1360	960	3000	HRR 25FL...C				
HRR 25FXL...C								133.4	105.4		70	35																											HRR 25FXL...C	
HRR 35FN...C								122	84																														HRR 35FN...C	
HRR 35FL...C	48	33	34	31	40	14x9x17	100	147.5	109.5	42	62	-	82	41	52	M10x13	M8	5	13	13	10.2	M6x12	M6x8	P5	12	10	16.4	31.7	31.7	86.1	175	3133	2881	2881	2400	5740	HRR 35FL...C			
HRR 35FXL...C								177.5	139.5		100	50																											HRR 35FXL...C	
HRR 45FN...C								156	110																														HRR 45FN...C	
HRR 45FL...C	60	37.5	45	38	52.5	20x14x17	120	191	145	52	80	-	100	50	60	M12x15	M10	6	15	15	14.8	M6x12	M6x8	P6	12	14.6	21.8	46.7	43.5	147.5	288	7550	6900	4700	10000	HRR 45FL...C				
HRR 45FXL...C								226	180		120	60																											HRR 45FXL...C	
HRR 55FN...C								182.4	130																														HRR 55FN...C	
HRR 55FL...C	70	43.5	53	45	60	24x16x20	140	233.4	181	60	95	-	116	58	70	M14x18	M12	7	18	18	16.8	M6x12	M6x9	P6	12	15	22	57	55.2	214	430	12200	12300	8400	12700	HRR 55FL...C				
HRR 55FXL...C								290.4	238		150	75																											HRR 55FXL...C	

- N₂ = Injecting holes
- N₃ = O-ring size for lubrication from above
- N₂, N₃ will be sealed before shipment, please open it when first using the product.
- MxG₂, M₁: Screw size according to ISO 4762-12.9
- M₂: countersink screw size according to DIN 7984-8.8
- Please refer to the catalog P11 for the size of the screw hole of the reinforcement sheet.

The measured value is the dynamic load rating value with roller chain C106. The above static load rating and the static moment are calculated according to the ISO 14728 standard.



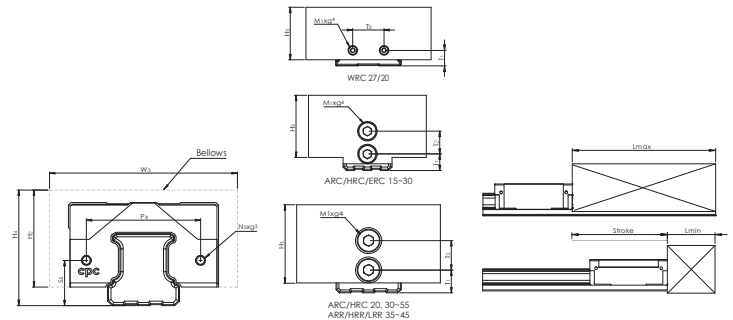
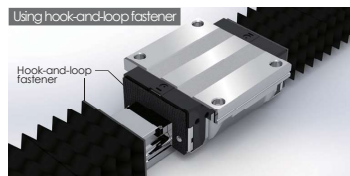
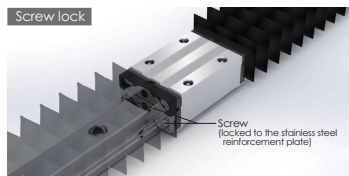
Bellows

Type of bellows



- Nylon waterproof bellow (black)**
Features: protection against water, oil and dust
- Teflon glass fiber bellow (brown)**
Features: fireproof, acid and alkali resistance
- Antistatic fabric bellow (light blue)**
Properties: especially for cleanrooms
(only antistatic detection, no dust detection)
- Neoprene rubber bellow (black)**
Features: oil and water resistance
- PVC nylon waterproof bellow (black)**
Features: waterproof, oil-proof, dust-proof
- Aluminum-plated fireproof bellow (bright silver)**
Features: non flammable, waterproof, oil-proof

Fixing with block



Dimensions and Specifications

Applicable to: Nylon waterproof bellow, Teflon glass fiber bellow and Antistatic fabric bellow

Type	Size	Main dimensions				Screw holes on the block		fastening screw for block		Screw holes on the rail			fastening screw for rail		calculation factor
		W3	H2	H3	H4	P4	S5	N5	g3	T1	T2	T3	M1xg4	Q	
ARC/HRC/ERC	15	36	19	19	23	25	9.4	M3x0.35	2.3	5	7	-	M3x6	5	
	20	44	21	21	27	29	12.5	M3x0.35	2.1	7	9	-	M4x8	6	
	25	50	25	25	32	36.5	14.5	M3x0.35	2.8	9	9	-	M4x8	7	
	30	60	34	34	41	42.5	17	M4x0.5	3.2	10	10	-	M4x8	8	
	35	70	39	39	47	50	19.5	M4x0.5	3.1	13	10	-	M4x8	9	
	45	86	49	49	59	65	24	M4x0.5	5.8	15	13	-	M5x10	10	
55	100	56	56	69	73	28.5	M5x0.5	5.6	18	15	-	M5x10	12		
WRC	27/20	72	22	22	26	50	11	M3x0.35	2.5	10	-	20	M3x6	5	
ARR/HRR/LRR	35	80	36	36	43	60	18	M4x0.5	4.7	13	10	-	M4x8	12	
	45	95	42	42	51	70	22.5	M4x0.5	3.3	15	13	-	M5x10	14	

Applicable to: PVC nylon waterproof bellow, Aluminum-plated fireproof bellow, Neoprene rubber bellow
(please pay attention to the height of the bellow when selecting)

Type	Size	Main dimensions				Screw holes on the block		fastening screw for block		Screw holes on the rail			fastening screw for rail		calculation factor
		W3	H2	H3	H4	P4	S5	N5	g3	T1	T2	T3	M1xg4	Q	
ARC/HRC/ERC	15	55	27	27	31	25	9.4	M3x0.35	2.3	5	7	-	M3x6	5	
	20	60	32	32	38	29	12.5	M3x0.35	2.1	7	9	-	M4x8	6	
	25	69	37	37	44	36.5	14.5	M3x0.35	2.8	9	9	-	M4x8	7	
	30	80	44	44	51	42.5	17	M4x0.5	3.2	10	10	-	M4x8	8	
	35	90	50	50	58	50	19.5	M4x0.5	3.1	13	10	-	M4x8	9	
	45	105	57	57	67	65	24	M4x0.5	5.8	15	13	-	M5x10	10	
55	125	66	66	79	73	28.5	M5x0.5	5.6	18	15	-	M5x10	12		
ARR/HRR/LRR	35	84	47	47	54	60	18	M4x0.5	4.7	13	10	-	M4x8	8	
	45	112	60	60	69	70	22.5	M4x0.5	3.3	15	13	-	M5x10	11	

* If any customized requirements, please contact cpc.

Calculations

EX:
$$L_{min} = \frac{S}{(Q-1)}$$
 S: Stroke (mm) S = 200 size: HRC 20 Q = 6
$$L_{max} = 40 \times 6 = 240$$

$$L_{max} / L_{min} = 240 / 40$$

$$L_{min} = \frac{200}{(6-1)} = 40$$
 Lmin : 10mm

Ordering information

HRC	20	BL-C	240 / 40
			Lmax / Lmin (mm)
Bellows:			
		BL-A Nylon waterproof bellow	BL-D Neoprene rubber bellow
		BL-B Teflon glass fiber bellow	BL-E PVC nylon waterproof bellow
		BL-C Antistatic fabric bellow	BL-F Aluminum-plated fireproof bellow
type : Standard Ball type: 15, 20, 25, 30, 35, 45, 55 Wide Ball type: 21/15, 27/20 Standard Roller type: 35, 45			
Product type : Standard Ball type: ARC / HRC / ERC Wide Ball type: WRC Standard Roller type: ARR / HRR / LRR			

Ordering example : HRC20-BL-C-240/40

Nipple Option

Grease nipple / Oil piping joint

OB-M3-M6	OA-M3-D4	OA-M6-M8	OA-M6-PT1/8	
OA-M6-G1/8	OB-M6-M8	OB-M6-PT1/8	OA-PT1/8-M8	
OA-PT1/8-PT1/8	OA-PT1/8-G1/8	OB-PT1/8-M8	OB-PT1/8-PT1/8	

- The L type nipple is for both ball bearing and roller type external seals (SN)
 - The XL type nipple is for the roller type external seal (SN)

Note: in case of need for customization or special requirements, please contact **cp**

B-M6-XL	OA-M6-M8-L	OA-M6-PT1/8-L	OA-M6-G1/8-L	
OB-M6-M8-L	OB-M6-PT1/8-L	B-PT1/8-L	OA-M6-M8-XL	
OA-M6-PT1/8-XL	OA-M6-G1/8-XL	OB-M6-M8-XL	OB-M6-PT1/8-XL	

Lubrication Kit and Grease Gun

The **cpc** Lubrication Unit is a supply nozzle with 3 different sizes of nozzle adaptors. These nozzle adaptors are suitable for differently sized grease nipples on different sized linear blocks.

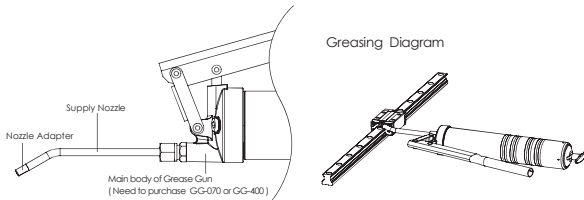


Nipple Option

	Type	Nipple Size		Nipple Type	
		Section	Side		
Ball	ARC15	HRC15	M3	M3	A-M3
	ARC20	HRC20	M3	M3	B-M3
	ARC25	HRC25	M4	M3	A/B-M4
	ARC30	HRC30	M4	M4	A/B-M4
	ARC35	HRC35	M4	M4	A/B-M4
Roller	ARC45	HRC45	PT1/8	M4	B-PT1/8
	ARC55	HRC55	M4	M4	A/B-M4
	ARR15	HRR15	M3	M3	A/B-M3
	ARR20	HRR20	M4	M4	A/B-M4
	ARR25	HRR25	M4	M4	A/B-M4
	ARR35	HRR35	M4	M4	A/B-M4
	ARR45	HRR45	M6	M6	A/B-M6
	ARR55	HRR55	M6	M6	A/B-M6

GP-PT1/8-01 Lubrication Kit

The Lubrication Kit comes equipped with a supply nozzle (GT-1/8-M5) and three kinds of different nozzle adaptors (GH-M5-MR, GH-M5-06, GH-M5-08). The supply nozzle can be mounted on the main body of the common manual or pneumatic grease gun with PT1/8 tapped connectors widely available on the market.



Supply Nozzle

Type	Dimension
GT-PT1/8-M5	

Nozzle Adapter

Unit: mm

Type	Dimension	Grease Nipple	
GH-M5-MR		MR series Miniature linear guide size MR-15M · MR-15W MR-12M · MR-12W	
GH-M5-06		A-M3 A-M3-L	
		B-M3 B-M3-L	
GH-M5-08		A-M6 A-M6-L A-M6-XL	
		B-M6 B-M6-L B-M6-XL	
		B-PT1/8 B-PT1/8L	

Main body of Grease Gun

Option for the main body of the Grease Gun: GG-070 for 70g volume grease pack and GG-400 for 400g volume grease pack.

Type	Dimension	Feature
GG-070		<ol style="list-style-type: none"> Pressure: 27Mpa Output Volume: 0.5~0.7 c.c./stroke Grease: Suitable for 70g volume grease pack or bulk loading
GG-400		<ol style="list-style-type: none"> Pressure: 62Mpa Output Volume: 1.0~1.2 c.c./stroke Grease: Suitable for 400g volume grease pack or bulk loading

cpc AR/HR Z Series Lubrication Storage Pad Testing Report

A linear guide is a category of rolling guidance systems. By using unlimited recirculating stainless steel balls that operate between the raceways of the rail and the runner block, the carriage achieves high precision and low friction linear movement. If the linear guides do not have sufficient lubrication, rolling friction will increase, causing wear and shortened linear guide lifespan.

cpc has added and embedded PU lubricant storage pads to prolong the life of the linear guide; the pads directly contact and lubricate the rolling balls. This design supplies sufficient lubrication even in short stroke operations.

cpc's design, due to the embedded pads absorption and retention capabilities, results in a product that features a long operation life and long-term lubrication.

Following are the results of cpc's in-house testing.

AR15 Lubrication Storage Pad Testing Data

Tested products: AR15 blocks with lubrication storage pads, 8 pieces, and AR15 rails, N accuracy grade, 1500mm Length, 4 pieces

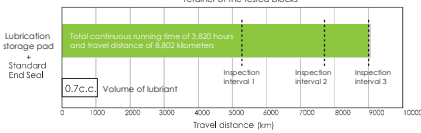
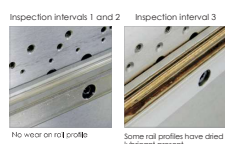
Testing condition	
Rating load capacity(each Block)	1.8KN(±9KN - CO117.5KN)
Stroke	0.5m
Max running speed	1m/s
Lubricant	DAFNE SUPER MULTI 68 (Viscosity4.32 CST 40°C)
Lubrication period	No lubrication added during testing period

Testing equipment



Testing result

Test results at inspection intervals



Test Summary

Total continuous running time of 3820 hours and travel distance of 8822 kilometers. Out of eight test blocks, dried lubricant residue appeared on 2 blocks and 1 rail. Dried lubricant residue is indicative of a need for relubrication and thus lengthens the operational life of the linear guide.

Linear Guide Service Life Calculation and Model Selection

Company /		Date (DD/MM/YEAR) /	
Address /		Tel /	
Contact /		Department /	
Application (Axial) /		Machine Model /	
Amount required per Machines /		Sample Required Date (DD/MM/YEAR) /	
Application Drawing Provided? <input type="checkbox"/> Yes <input type="checkbox"/> No		Production Date (DD/MM/YEAR) /	
Assembly Specification / Way of Assembling			
<input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> Wall Hanging <input type="checkbox"/> Hanging on the Ceiling <input type="checkbox"/> Inclined 1 (Degree: ___) <input type="checkbox"/> Inclined 2 (Degree: ___) <input type="checkbox"/> Others (Please Draw a Sketch Above)			
Rails per Axial	<input type="checkbox"/> I (1)	<input type="checkbox"/> II (2)	<input type="checkbox"/> III (3) <input type="checkbox"/> Other
Blocks per Rail	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 <input type="checkbox"/> Other
Distribution of Blocks (mm)	l_{d0} : _____ (Distance Between Blocks on the same rail)		l_{d1} : _____ (Distance Between Adjacent Blocks on different rails)
Center of Mass of load (mm)	l_{mx} : _____	l_{my} : _____	l_{mz} : _____
Mass of Load (kg)	_____ (Please include mounting plate weight)		
Driver Position (mm)	l_{dx} : _____	l_{dy} : _____	l_{dz} : _____
External Force Applying Position (mm)	l_{fx} : _____	l_{fy} : _____	l_{fz} : _____
Axial Component (N)	F_x : _____	F_y : _____	F_z : _____
One Rail Per Axial			
Two Rails Per Axial			
Motion Specification			
Drive Mechanism	<input type="checkbox"/> Linear Motor <input type="checkbox"/> Ball Screw <input type="checkbox"/> Pneumatic Cylinder <input type="checkbox"/> Belt <input type="checkbox"/> Hydraulic cylinder <input type="checkbox"/> Rack and Pinion <input type="checkbox"/> Manual <input type="checkbox"/> Other		
Specification	Stroke Distance (mm): _____		Maximum Speed (m/sec): _____
	Acceleration (m/sec ²): _____		Deceleration (m/sec ²): _____
	Stroke Time (sec): _____		Frequency (Hz): _____
	Daily Operation Time (hr): _____		Expected Service Life (Year): _____
Environment and Lubrication Requirements			
Environment	<input type="checkbox"/> General <input type="checkbox"/> Clean room (Grade/Class: ___) <input type="checkbox"/> Vacuum / Low Pressure <input type="checkbox"/> Small Amount of Dust (Substance: ___) <input type="checkbox"/> Large Amount of Dust (Substance: ___) <input type="checkbox"/> Liquid Substance (Substance: ___) <input type="checkbox"/> Special Gas (Substance: ___) <input type="checkbox"/> Other		
cpc Initial Lubrication	<input type="checkbox"/> Pre-lubricated (Regular Amount) <input type="checkbox"/> Pre-lubricated (Small Amount) <input type="checkbox"/> None <input type="checkbox"/> Other		
cpc Initial Anfrust Method	<input type="checkbox"/> Apply Anfrust Oil On the Surface <input type="checkbox"/> Apply Grease On the Surface <input type="checkbox"/> None <input type="checkbox"/> Other		
Customer Initial Lubrication	<input type="checkbox"/> cpc Grease only <input type="checkbox"/> In addition to cpc Grease, Inject Customer's Grease (Grease: ___) <input type="checkbox"/> Remove cpc Grease And Inject Customer's Grease (Solvent: ___) <input type="checkbox"/> Other		
End User Re-lubrication Method	<input type="checkbox"/> Manual <input type="checkbox"/> Central Oiling System <input type="checkbox"/> None <input type="checkbox"/> Other		