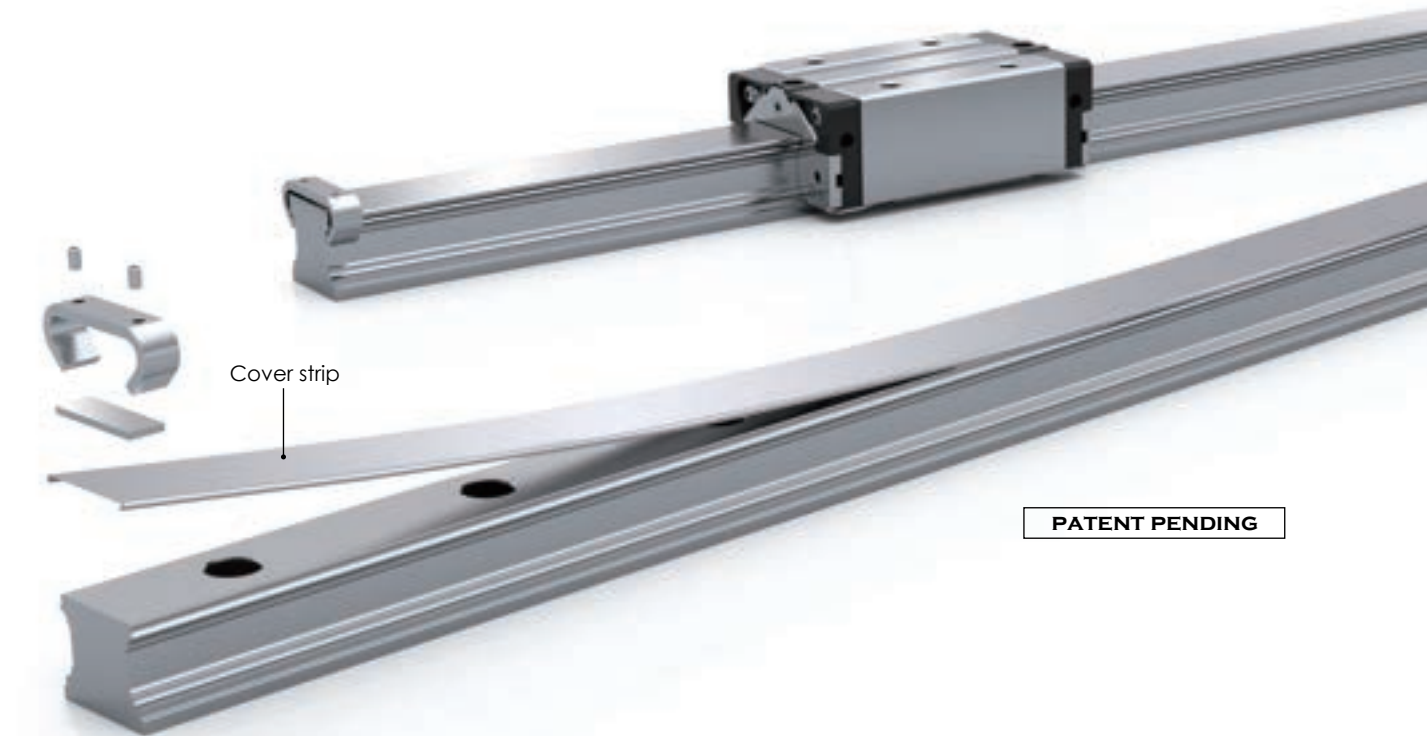


ARD/HRD/ERD series

Standard 4-Row Ball Bearing Linear Guide Equipped with Cover Strip

Product features

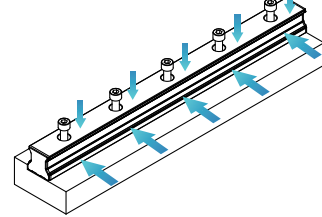
- Equipped with cover strip
- High dustproof effectiveness
- Easy installation
- Available in all sizes: 15-55
- Length of the cover strip will be the same as the guide rail
- Fixed device provided on both ends
- Under normal use, the metal cover can be installed and removed repeatedly



Installation

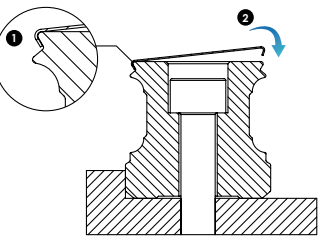
STEP 1.

Mounting the rail against the reference edge and tighten the screws; measuring the accuracy within the tolerance to ensure a correct mounting process.



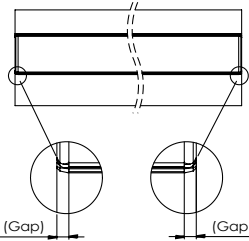
STEP 2.

1. Put the cover strip on one side of the rail.
2. Press down the cover strip on the other side to make it fit the rail.



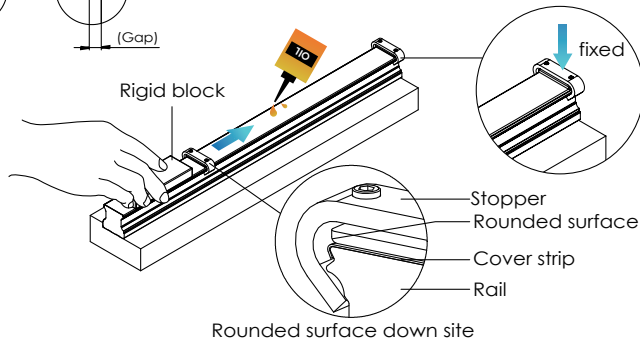
STEP 3.

The gap at both ends better to be the same.



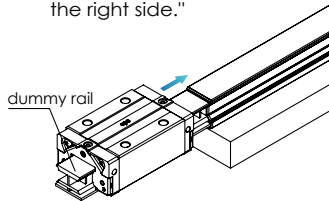
STEP 4.

1. Place the press plate on the cover strip.
2. Slide the metal stopper over the plate.
3. Tighten the screws slightly; the press plate is to the cover strip, the rounded surface is attached to the cover strip. Add some lubricating oil. Moving the stopper set forward to the other end by pushing the rigid block, thereafter fix on the rail top surface tightly.
4. Tighten the screws to fix the stopper on one end of the cover strip.



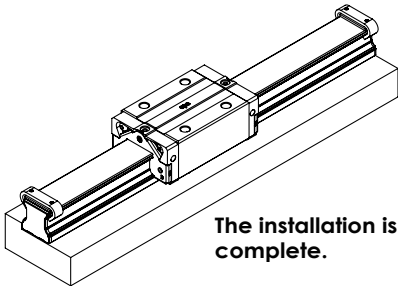
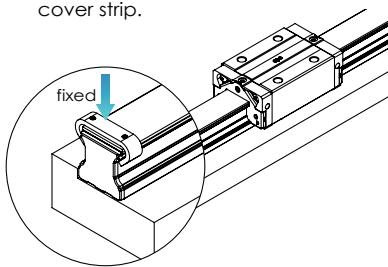
STEP 5.

Mounting the block onto the rail. "Attention the reference side on the right side."



STEP 6.

After the block and the rail are assembled, fix the other stopper on the other end of the cover strip.

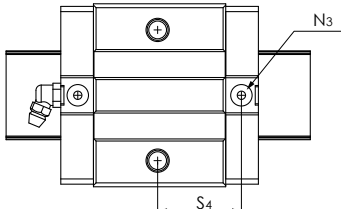
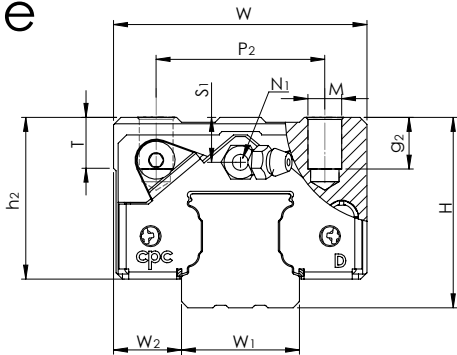


Ordering information

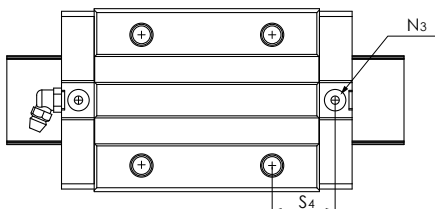
Model code

ARD	15	M	N	-R	S	2	Z	C	V1	P	-1480L	-20	-20	II	/J	
Customization code																
Number of rails on the same moving axis																
End hole pitch (mm)																
Starting hole pitch (mm)																
Rail length (mm)																
Accuracy grade : UP, SP, P, H, N																
Preload class : VC, V0, V1, V2																
C: with ball chain (Available for size 15,20,25,30,35 and 45)																
Z: with lubrication storage pad (Available for size 15,20,25,30,35 and 45)																
Block quantity																
Seal type : S: Standard																
R: six mounting holes Unlabeled: Standards																
Block length : L: long N: standard S: short																
Block width : M: standard F: flanged																
Block type : 15, 20, 25, 30, 35, 45, 55																
Product type : ARC/ARD: automation series HRC/ERC/HRD/ERD: heavy load series																

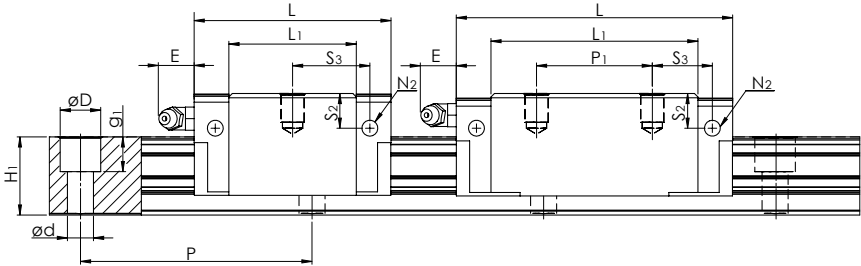
Dimensions Table



Suitable for _RD_ _MS



Suitable for _RD_ _MN/ML



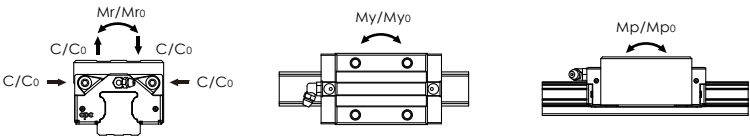
MS

MN / ML

ARD/ERD MS, MN, ML Series

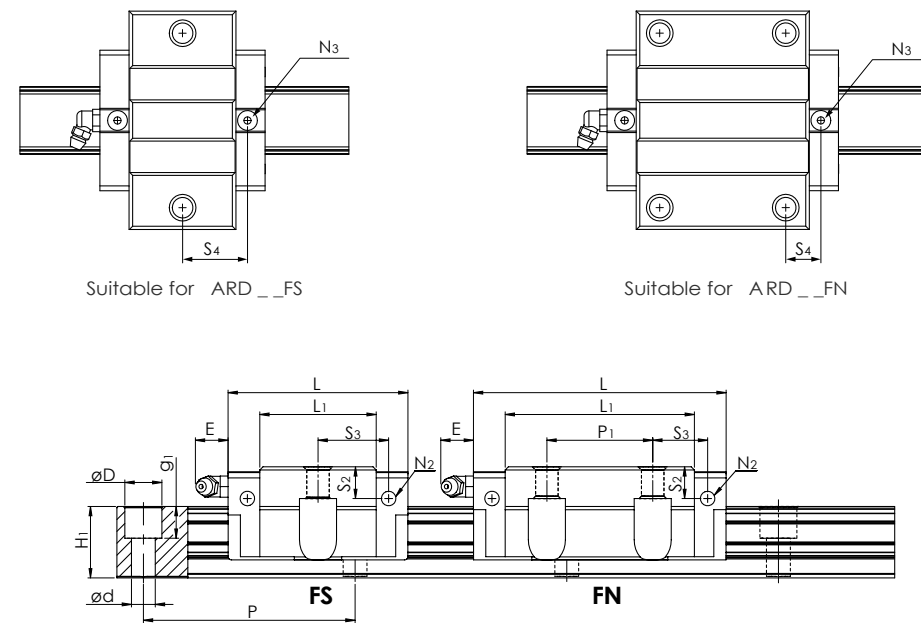
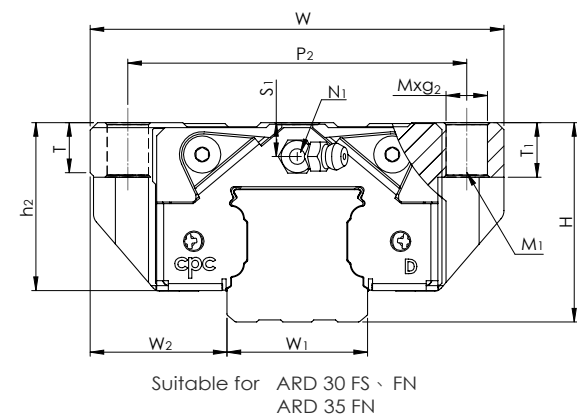
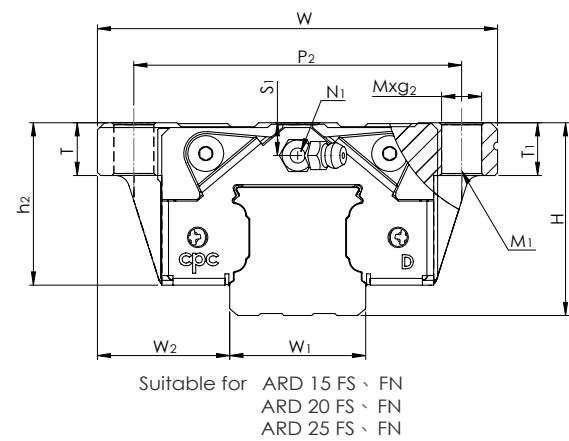
Model Code	Mounting Dimensions		Rail Dimensions(mm)				Block Dimensions(mm)											Block Dimensions(mm)								Load Capacities (kN)		Static Moment (Nm)			Weight		Model Code
	H	W ₂	W ₁ 0 -0.05	H ₁	P	Dxdxg ₁	W	L	L ₁	h ₂	P ₁	P ₂	P ₃	Mxg ₂	M ₁	T	N ₁	N ₂	N ₃	E	S ₁	S ₂	S ₃	S ₄	C	C ₀	Mr ₀	Mp ₀	My ₀	Block (g)	Rail (g/m)		
ARD 15 MS	24	9.5	15	15.15	60	7.5x4.5x5.3	34	41.2	26	20.7	-	26	-	M4x7	-	6	M3x6.5	M3x6	P3	5.3	4.5	7.5	15.6	16.7	7.7	13.3	120	65	65	106	1290	ARD 15 MS	
ARD 15 MN								55.5	40.3		26												9.8	10.9	9.9	19.2	175	145	145	158		ARD 15 MN	
ARD 15 ML								76.2	61		34												16.1	17.2	13.4	29.5	280	330	330	240		ARD 15 ML	
ARD 20 MS	28	11	20	20.2	60	9.5x6x8.5	42	49.2	32.2	23	-	32	32	-	M5x7	-	8	M3x7.5	M3x5.5	P4	10	4	7.4	19.1	19.8	12.5	21.1	250	130	130	170	2280	ARD 20 MS
ARD 20 MN								69	52		32													13	13.7	17.1	32.8	400	320	320	266		ARD 20 MN
ARD 20 ML								87.2	70.2		45													15.6	16.3	20.4	42.2	530	550	550	330		ARD 20 ML
ARD 25 MS	33	12.5	23	23.2	60	11x7x9	48	57.4	38.4	27	-	35	35	-	M6x9	-	8	M6x7.5	M3x6.5	P4	12	5	9.3	22.2	23.2	18.2	29.9	420	220	220	300	3020	ARD 25 MS
ARD 25 MN	81.2							62.2	35		16.6													17.6	24.8	46.6	675	540	540	420	ARD 25 MN		
ERD 25 MS	36							57.4	38.4		-						12					8	12.3	22.2	23.2	18.2	29.9	420	220	220	315		ERD 25 MS
ARD 30 MS	42	16	28	27.2	80	14x9x12	60	68	44	35.2	-	40	40	-	M8x12	-	12	M6x8.5	M6x5	P5	12	7.5	12	27	26.7	23.3	36.2	700	345	345	560	4380	ARD 30 MS
ARD 30 MN								95.5	71.5		40													20.8	20.5	32.8	58.9	1050	780	780	800		ARD 30 MN
ARD 30 ML								118	94		60													21.7	21.7	39.6	77.0	1400	1330	1330	1138		ARD 30 ML
ARD 35 MN	48	18	34	32.3	80	14x9x12	70	111.2	86.2	40.4	50	50	-	M8x13	-	14	M6x10	M6x7	P5	12	8	15	23.4	24.1	45.9	82.9	2030	1330	1330	1120	6790	ARD 35 MN	
ARD 35 ML								136.6	111.6		72												25.1	25.8	54.7	106.5	2650	1755	1755	1536		ARD 35 ML	
ARD 45 MN	60	20.5	45	39.3	105	20x14x17	86	135.5	102.5	50.7	60	60	-	M10x17	-	14	PT1/8x12.5	M6x10.5	P5	14	11.1	18.1	27.3	27.3	71.3	122.1	3550	2350	2350	2120	10530	ARD 45 MN	
ARD 45 ML								171.5	138.5		80												35.3	35.3	89.5	169.1	5100	4300	4300	3160		ARD 45 ML	
ARD 55 MN	70	23.5	53	46	120	24x16x20	100	168.5	126.5	58	75	75	-	M12x20	-	16	M6x10	M6x13	P5	12	13.5	23.5	34.8	33.8	108	186	6100	4400	4400	4200	14000	ARD 55 MN	
ARD 55 ML								202	160		95												41.5	40.5	125	226	7500	6650	6650	5083		ARD 55 ML	

1. The load capacities is for full-ball type (without ball chain)
2. N2 = Injecting holes
3. N3 = O-ring size for lubrication from above
4. N2, N3 will be sealed before shipment, please open it when first using the product.
5. Please refer to the catalog P10 for the size of the screw hole of the reinforcement sheet
6. ARD series rail height including cover strip (H1)



The above rating load capacities and static moments are calculated according to the ISO14728 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. If a standard of 50km travel distance is applied to measure the average product lifespan, the above basic dynamic load rating C should be multiplied by 1.26 for an accurate conversion.

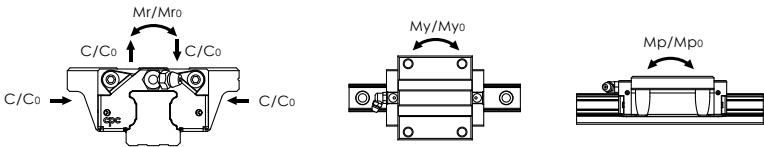
Dimensions Table



ARD FS, FN Series

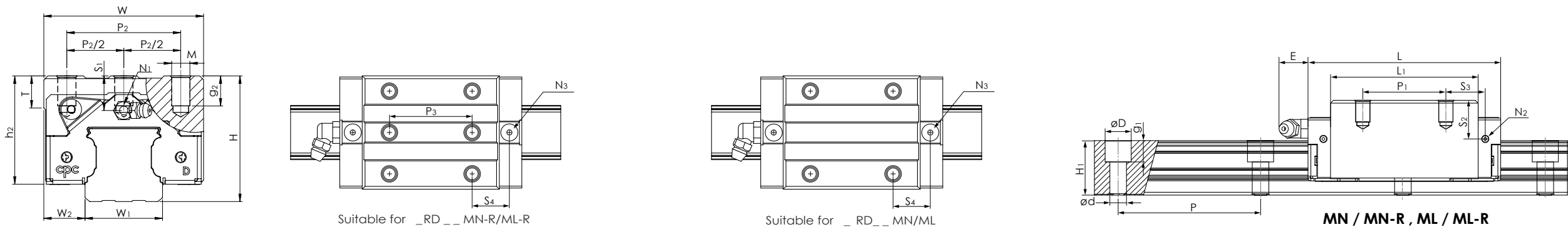
Model Code	Mounting Dimensions		Rail Dimensions(mm)				Block Dimensions(mm)												Block Dimensions(mm)								Load Capacities (kN)		Static Moment (Nm)			Weight		Model Code
	H	W ₂	W _{1 0-0.5}	H ₁	P	Dx dx g ₁	W	L	L ₁	h ₂	P ₁	P ₂	P ₃	M x g ₂	M ₁	T	T ₁	N ₁	N ₂	N ₃	E	S ₁	S ₂	S ₃	S ₄	C	C ₀	M _{r0}	M _{p0}	M _{y0}	Block (g)	Rail (g/m)		
ARD 15 FS	24	18.5	15	15	60	7.5x4.5x5.3	52	41.2	26	20.7	-	41	-	M5x7	M4	7	7	M3x6.5	M3x6	P3	5.3	4.5	7.5	15.6	16.7	7.7	13.3	120	65	65	132	1290	ARD 15 FS	
ARD 15 FN								55.5	40.3		26													-	M6x10	M5	10	10	M3x7.5	M3x5.5	P4		10	4
ARD 20 FS	28	19.5	20	20	60	9.5x6x8.5	59	49.2	32.2	23	-	49	-	M6x10	M5	10	10	M3x7.5	M3x5.5	P4	10	4	7.4	19.1	19.8	12.5	21.1	250	130	130	210	2280	ARD 20 FS	
ARD 20 FN								69	52		32													-	M6x10	M5	10	10	M3x7.5	M3x5.5	P4		10	4
ARD 25 FS	33	25	23	23	60	11x7x9	73	57.4	38.4	27	-	60	-	M8x10	M6	12	10	M6x7.5	M3x6.5	P4	12	5	9.3	22.2	23.2	18.2	29.9	420	220	220	345	3020	ARD 25 FS	
ARD 25 FN								81.2	62.2		35													-	M8x10	M6	12	10	M6x7.5	M3x6.5	P4		12	5
ARD 30 FS	42	31	28	27	80	14x9x12	90	68	44	35.2	-	72	-	M10x12	M8	12	12	M6x8.5	M6x5	P5	12	7.5	12	27	26.8	23.3	36.2	700	345	345	750	4380	ARD 30 FS	
ARD 30 FN								95.5	71.5		40													-	M10x12	M8	12	12	M6x8.5	M6x5	P5		12	7.5
ARD 35 FS	48	33	34	32	80	14x9x12	100	76.7	51.7	40.4	-	82	-	M10x13	M8	13	13	M6x10	M6x7	P5	12	8	15	31.15	31.85	33.5	53.2	1250	525	525	1000	6790	ARD 35 FS	
ARD 35 FN								111.2	86.2		50													-	M10x13	M8	13	13	M6x10	M6x7	P5		12	8

2. N2 = Injecting holes
3. N3 = O-ring size for lubrication from above
4. N2, N3 will be sealed before shipment, please open it when first using the product.
5. Please refer to the catalog P10 for the size of the screw hole of the reinforcement sheet
6. ARD series rail height including cover strip (H1)



The above rating load capacities and static moments are calculated according to the ISO14728 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. If a standard of 50km travel distance is applied to measure the average product lifespan, the above basic dynamic load rating C should be multiplied by 1.26 for an accurate conversion.

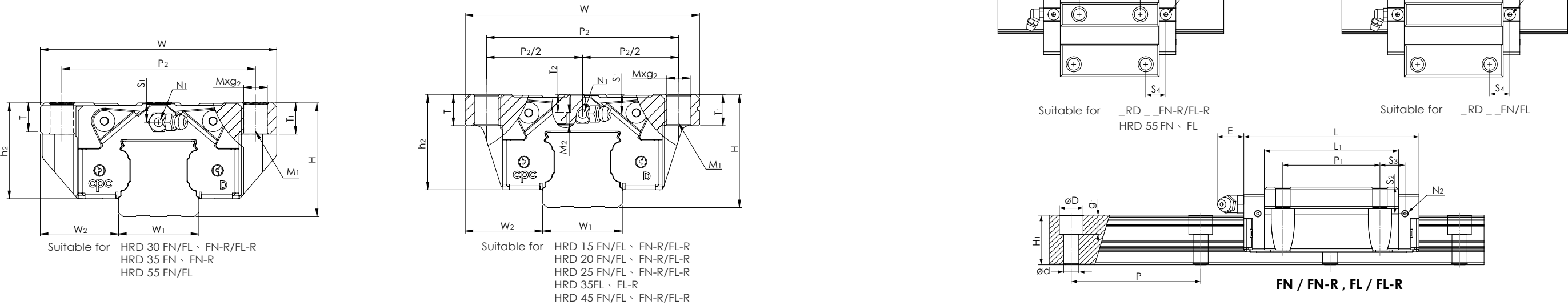
Dimensions Table



HRD/ERD MN, ML 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 0 -0.05	H ₁	P	D×d×g ₁	W	L	L ₁	h ₂	P ₁	P ₂	P ₂ /2	P ₃	M×g ₂	M ₁	T	N ₁	N ₂	N ₃	E	S ₁	S ₂	S ₃	S ₄	C	C ₀	M _{r0}	M _{p0}	M _{y0}	Block (g)	Rail (g/m)		
HRD 15 MN	28	9.5	15	15.15	60	7.5×4.5×5.3	34	55.5	40.3	24.7	26	26	-	-	M4×7	-	6	M3×6.5	M3×6	P3	5.3	8.5	11.5	9.8	10.9	9.9	19.2	175	145	145	200	1290	HRD 15 MN	
HRD 15 MN-R								13	26				13	26										20.1	21.2	13.4	29.5	280	330	330	190		HRD 15 MN-R	
HRD 15 ML								-	-				-	-										20.1	21.2	13.4	29.5	280	330	330	300		HRD 15 ML	
HRD 15 ML-R								13	26				13	26										20.1	21.2	13.4	29.5	280	330	330	280		HRD 15 ML-R	
HRD 20 MN	30	12	20	20.2	60	9.5×6×8.5	44	69	52	25	36	32	-	-	M5×8.5	-	8	M3×7.5	M3×5.5	P4	10	6	9.4	11	11.7	17.1	32.8	400	320	320	318	2280	HRD 20 MN	
HRD 20 MN-R								16	36				16	36										13.1	13.8	20.4	42.2	530	550	550	300		HRD 20 MN-R	
HRD 20 ML								-	-				-	-										13.1	13.8	20.4	42.2	530	550	550	400		HRD 20 ML	
HRD 20 ML-R								16	50				16	50										13.1	13.8	20.4	42.2	530	550	550	370		HRD 20 ML-R	
ERD 25 MN	36	12.5	23	23.2	60	11×7×9	48	81.2	62.2	30	35	35	-	-	M6×9	-	8	M6×7.5	M3×6.5	P4	12	8	12.3	16.6	17.6	24.8	46.6	675	540	540	470	3020	ERD 25 MN	
ERD 25 MN-R								17.5	35				17.5	35										21	22	30.7	63.2	940	1000	1000	445		ERD 25 MN-R	
ERD 25 ML								105	86				-	-										21	22	30.7	63.2	940	1000	1000	610		ERD 25 ML	
ERD 25 ML-R								17.5	50				17.5	50										21	22	30.7	63.2	940	1000	1000	570		ERD 25 ML-R	
HRD 25 MN	40	12.5	23	23.2	60	11×7×9	48	81.2	62.2	34	35	35	-	-	M6×9	-	12	M6×7.5	M3×6.5	P4	12	12	16.3	16.6	17.6	24.8	46.6	675	540	540	578	3020	HRD 25 MN	
HRD 25 MN-R								17.5	35				17.5	35										16.6	17.6	24.8	46.6	675	540	540	560		HRD 25 MN-R	
HRD 25 ML								105	86				-	-										21	22	30.7	63.2	940	1000	1000	685		HRD 25 ML	
HRD 25 ML-R								17.5	50				17.5	50										21	22	30.7	63.2	940	1000	1000	645		HRD 25 ML-R	
HRD 30 MN	45	16	28	27.2	80	14×9×12	60	95.5	71.5	38.2	40	40	-	-	M8×12	-	12	M6×8.5	M6×5	P5	12	10.5	15	20.8	20.5	32.8	58.9	1050	780	780	896	4380	HRD 30 MN	
HRD 30 MN-R								20	40				20	40										21.7	21.8	39.6	77.0	1400	1330	1330	875		HRD 30 MN-R	
HRD 30 ML								118	94				-	-										21.7	21.8	39.6	77.0	1400	1330	1330	1150		HRD 30 ML	
HRD 30 ML-R								20	60				20	60										21.7	21.8	39.6	77.0	1400	1330	1330	1100		HRD 30 ML-R	
HRD 35 MN	55	18	34	32.3	80	14×9×12	70	111.2	86.2	47.4	50	50	-	-	M8×13	-	14	M6×10	M6×7	P5	12	15	22	23.4	24.1	45.9	82.9	2030	1330	1330	1430	6790	HRD 35 MN	
HRD 35 MN-R								25	50				25	50										25.1	25.8	54.7	106.5	2650	1755	1755	1370		HRD 35 MN-R	
HRD 35 ML								136.6	111.6				-	-										25.1	25.8	54.7	106.5	2650	1755	1755	1953		HRD 35 ML	
HRD 35 ML-R								25	72				25	72										25.1	25.8	54.7	106.5	2650	1755	1755	1800		HRD 35 ML-R	
HRD 45 MN	70	20.5	45	39.3	105	20×14×17	86	135.5	102.5	60.7	60	60	-	-	M10×20	-	14	PT1/8×12.5	M6×10.5	P5	14	21.1	28.1	27.3	27.3	71.3	122.1	3550	2350	2350	2794	10530	HRD 45 MN	
HRD 45 MN-R								30	60				30	60										35.3	35.3	89.5	169.1	5100	4300	4300	2650		HRD 45 MN-R	
HRD 45 ML								171.5	138.5				-	-										35.3	35.3	89.5	169.1	5100	4300	4300	4060		HRD 45 ML	
HRD 45 ML-R								30	80				30	80										35.3	35.3	89.5	169.1	5100	4300	4300	3950		HRD 45 ML-R	
HRD 55 MN	80	23.5	53	46	120	24×16×20	100	168.5	126.5	68	75	75	-	-	M12×25	-	16	M6×10	M6×13	P5	12	23.5	33.5	34.8	33.8	108	186	6100	4400	4400	5110	14000	HRD 55 MN	
HRD 55 MN-R								37.5	75				37.5	75										41.5	40.5	125	226	7500	6650	6650	4900		HRD 55 MN-R	
HRD 55 ML								202	160				-	-										41.5	40.5	125	226	7500	6650	6650	6243		HRD 55 ML	
HRD 55 ML-R								37.5	95				37.5	95										41.5	40.5	125	226	7500	6650	6650	6050		HRD 55 ML-R	

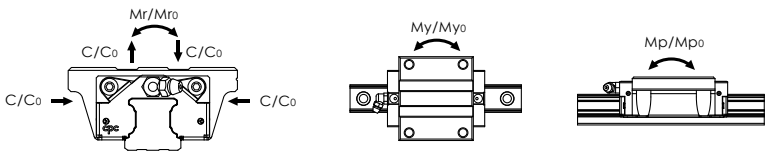
Dimensions Table



HRD FN, ML 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 0-0.05	H ₁	P	Dxdxg ₁	W	L	L ₁	h ₂	P ₁	P ₂	P ₂ /2	P ₃	M x g 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	C ₀	M _{r0}	M _{p0}	M _{y0}	Block (g)	Rail (g/m)	
HRD 15 FN	24	16	15	15.15	60	7.5x4.5x5.3	47	55.5	40.3	20.7	30	38	-	-	M5x7	M4	-	7	7	-	M3x6.5	M3x6	P3	5.3	4.5	7.5	7.8	8.9	9.9	19.2	175	145	145	190	1290	HRD 15 FN
HRD 15 FN-R													19	26			2.8			4.4							175	HRD 15 FN-R								
HRD 15 FL													-	-			-			-							290	HRD 15 FL								
HRD 15 FL-R													19	26			2.8			4.4							270	HRD 15 FL-R								
HRD 20 FN	30	21.5	20	20.2	60	9.5x6x8.5	63	69	52	25	40	53	-	-	M6x10	M5	-	10	10	-	M3x7.5	M3x5.5	P4	10	6	9.4	9	9.7	17.1	32.8	400	320	320	396	2280	HRD 20 FN
HRD 20 FN-R													26.5	35			3.5			4.4							375	HRD 20 FN-R								
HRD 20 FL													-	-			-			-							504	HRD 20 FL								
HRD 20 FL-R													26.5	35			3.5			4.4							475	HRD 20 FL-R								
HRD 25 FN	36	23.5	23	23.2	60	11x7x9	70	81.2	62.2	30	45	57	-	-	M8x10	M6	-	12	10	-	M6x7.5	M3x6.5	P4	12	8	12.3	11.6	12.6	24.8	46.6	675	540	540	626	3020	HRD 25 FN
HRD 25 FN-R													28.5	40			4			6.3							550	HRD 25 FN-R								
HRD 25 FL													105	86			-			-							-	-	870	HRD 25 FL						
HRD 25 FL-R																	28.5			40							4	6.3	810	HRD 25 FL-R						
HRD 30 FN	42	31	28	27.2	80	14x9x12	90	95.5	71.5	35.2	52	72	-	-	M10x12	M8	-	12	12	-	M6x8.5	M6x5	P5	12	7.5	12	14.8	14.5	32.8	58.9	1050	780	780	1110	4380	HRD 30 FN
HRD 30 FN-R													36	44			5			6.8							1000	HRD 30 FN-R								
HRD 30 FL													118	94			-			-							-	-	1385	HRD 30 FL						
HRD 30 FL-R																	36			44							5	6.8	1290	HRD 30 FL-R						
HRD 35 FN	48	33	34	32.3	80	14x9x12	100	111.2	86.2	40.4	62	82	-	-	M10x13	M8	-	13	13	-	M6x10	M6x7	P5	12	8	15	17.4	18.1	45.9	82.9	2030	1330	1330	1550	6790	HRD 35 FN
HRD 35 FN-R													41	52			5			7.3							1400	HRD 35 FN-R								
HRD 35 FL													136.6	111.6			-			-							-	-	2000	HRD 35 FL						
HRD 35 FL-R																	41			52							5	7.3	1800	HRD 35 FL-R						
HRD 45 FN	60	37.5	45	39.3	105	20x14x17	120	135.5	102.5	50.7	80	100	-	-	M12x15	M10	-	18	15	-	PT1/8x12.5	M6x10.5	P5	14	11.1	18.1	17.3	17.3	71.3	122.1	3550	2350	2350	2747	10530	HRD 45 FN
HRD 45 FN-R													50	60			6			9.8							2550	HRD 45 FN-R								
HRD 45 FL													171.5	138.5			-			-							-	-	4280	HRD 45 FL						
HRD 45 FL-R																	50			60							6	9.8	4050	HRD 45 FL-R						
HRD 55 FN	70	43.5	53	46	120	24x16x20	140	168.5	126.5	58	95	116	58	70	M14x18	M12	13	18	18	9.4	M6x10	M6x13	P5	12	13.5	23.5	24.8	23.8	108	186	6100	4400	4400	5440	14000	HRD 55 FN
HRD 55 FL								202	160																		41.5	40.5	125	226	7500	6650	6650	6963		HRD 55 FL

1. The load capacities is for full-ball type (without ball chain)
2. N₂ = Injecting holes
3. N₃ = O-ring size for lubrication from above
4. N₂, N₃ will be sealed before shipment, please open it when first using the product.
5. Mxg₂, M₁: Screw size according to ISO 4762-12.9
6. M₂ countersunk screw size according to DIN 7984-8.8
7. Please refer to the catalog P10 for the size of the screw hole of the reinforcement sheet
8. ARD series rail height including cover strip (H₁)



The above rating load capacities and static moments are calculated according to the ISO14728 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. If a standard of 50km travel distance is applied to measure the average product lifespan, the above basic dynamic load rating C should be multiplied by 1.26 for an accurate conversion.