

## ARR/HRR/LRR Roller Guides Series

### Product features

- ARR low profile model and HRR standard profile model (Block types: MN/ML/FN/FL ) are exactly the same installation dimensions as the other brands.
- The optimized design of the contact surface between the roller and the raceway of the rail has Free-Edge Effect, which greatly improves the load capacity of the roller guide.
- The LRR model with a lower system height
 

The LRR series with a lower system height, which allows a low center of gravity, offers a more compact height space with the same rated load and rated life.
- High load MXL super long Block model
 

Compared with the ML model with a long block, MXL model presents a larger rated load and rigidity, and has better vibration absorption capacity.
- Patented silent roller chain (patented design)
 

Effectively reduce the noise and bumps when the block moves, improve the running smoothness and increase the rated load capacity.
- Built-in oil storage design (patent design)
 

The built-in oil storage ensures long-term lubrication, which is environmentally friendly and reduces maintenance costs.
- High-rigidity stainless steel reinforcement plate (patent design)
 

It has a scraping function to maintain a small gap with the rail section to prevent metal chips from intruding. The L-shaped design. The bottom of the steel body is equipped with an integrated milling tenon, which is mutually embedded and powerfully covers the end cover to increase the running speed and acceleration.
- Fully covered sealing design
 

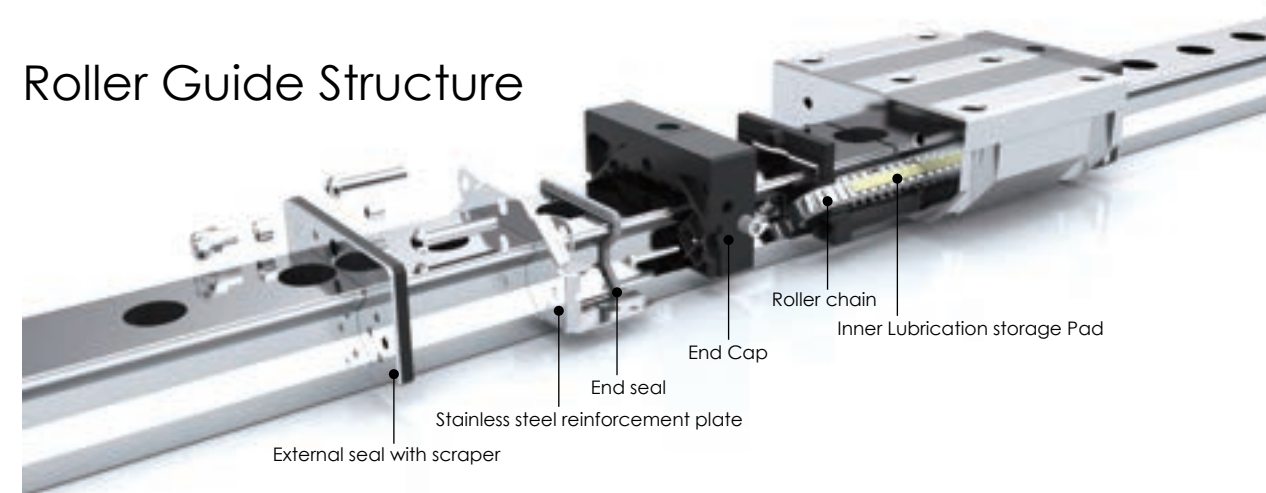
The blocks of all models are equipped with covered seals, which can effectively prevent foreign matter and dust from invading the blocks and reduce the overflow of lubricating oil in the blocks.
- High precision
 

The appropriate accuracy level can be selected according to different applications
- Metal cover strip (patent design)
 

All types of slides are available for selection, and can prevent foreign matter from intruding in harsh environments and have a high dust-proof effect.
- Metal plastic cap (patent design)
 

Patented design, easy installation, stainless steel upper cover can show excellent wear resistance and dust resistance in harsh environments.

### Roller Guide Structure



Travel speed : Reach  $V_{max}$  10 m/s

Acceleration : Reach  $a_{max}$  450 m/s<sup>2</sup>

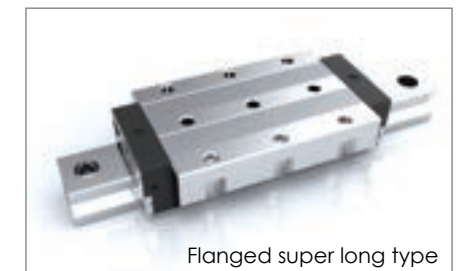
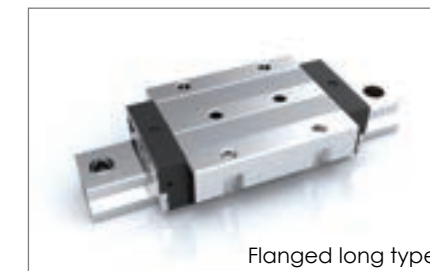
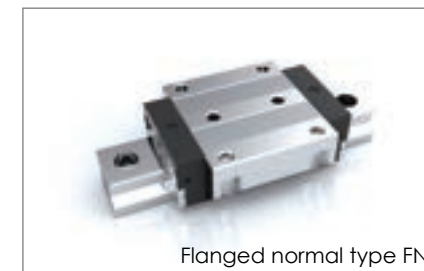
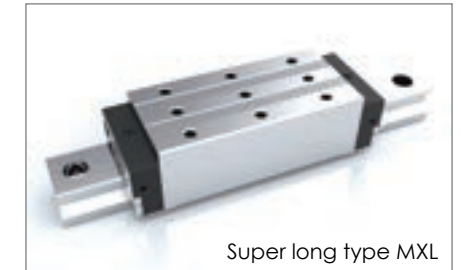
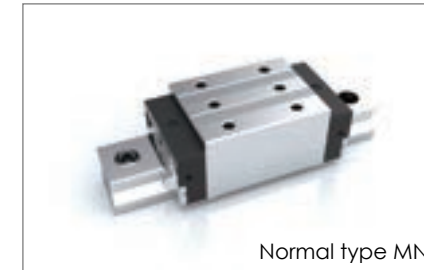
Precondition: preload must be present, even when operating under load.

### Types of the Roller Guide Block

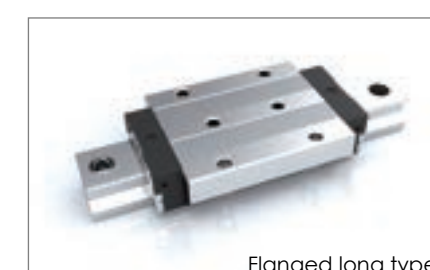
#### ARR low profile Model



#### HRR standard profile Model



#### LRR low system height Model

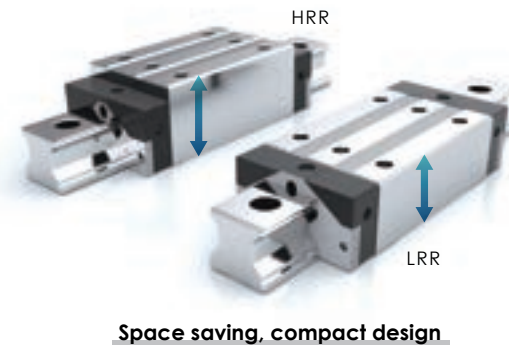
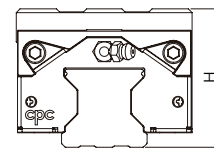


## Roller Guide design

### The LRR model with a lower system height

Compared with the other brands' standard, the model with a lower center of gravity is combined with a lower height can provide more compact height space, or for the applications that need to reduce external torque and smaller inertia force. ARR, HRR, and LRR blocks all share the same rail and have the same rated load and rated life.

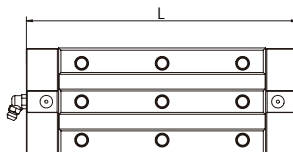
Model specification				Unit : mm
				System height H
LRR	35	MN	FN	44
		ML	FL	
		MXL	FXL	
	45	MN	FN	52
		ML	FL	
		MXL	FXL	
	55	MN	FN	63
		ML	FL	
		MXL	FXL	



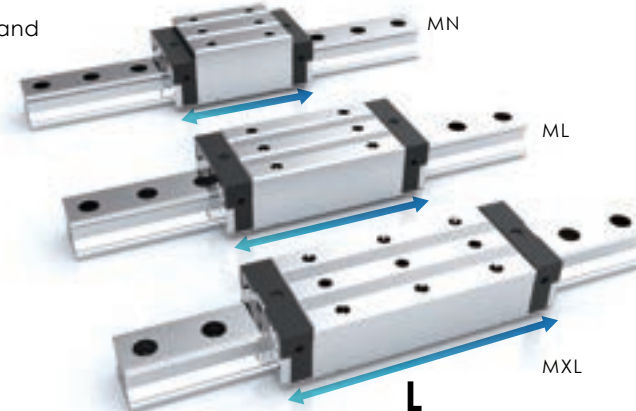
Space saving, compact design

### MXL super long Block model

Compared with the other brands' ML extended slider, the longer-length super long block model can present greater rated load and rigidity, and has better vibration absorption. It is suitable for machine tools that require ultra-high rigidity and running accuracy.



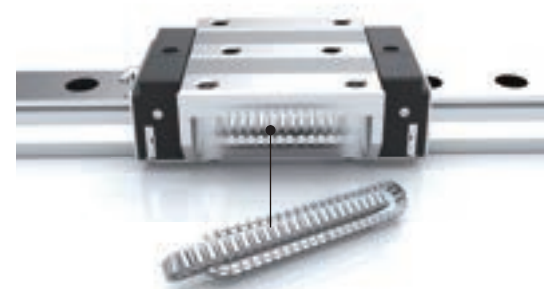
Model specification				Unit : mm
				Block length L
HRR	25	MXL	FXL	133.4
	35			177.5
	45			226
	55			290.4
LRR	35	MXL	FXL	177.5
	45			226
	55			290.4



High load, high rigidity, super long design

### Patented silent roller chain (option)

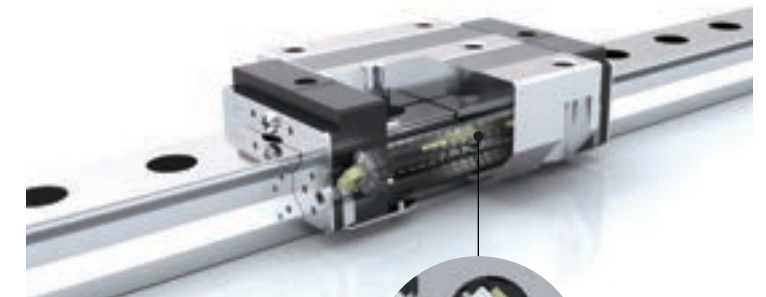
The roller chain can effectively reduce the high-frequency noise during the operation of the block and improve the running smoothness. The spacer in the roller chain between adjacent steel rollers can continuously replenish the oil film of the rollers to maintain better lubrication.



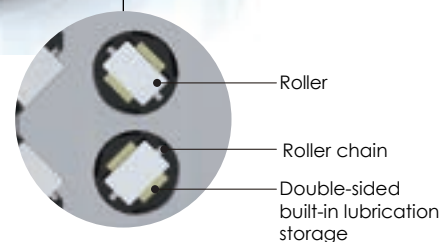
Improve the running smoothness, noise reduce design.

### Built-in lubrication storage design (patent design)

The built-in PU lubrication storage is embedded in the revolving channel at both ends and the inner pipe of the block, which does not increase the length of the block, but can directly contact the rollers in each row. And according to the operating environment, the block is immersed in the lubricant, and the lubricant can also be injected through the inject port, so that enough lubricant is stored in the PU lubrication storage. This ensures the long-term lubrication effect and comply with environmental protection and reduction Maintenance cost.



Excellent long-term lubrication effect, environmentally friendly design



### High-rigidity stainless steel reinforcement plate

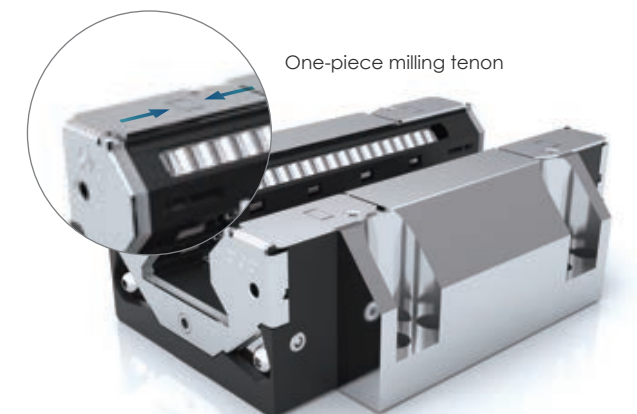
The L-shaped design is fixed on the steel body of the block with screws on the end and bottom respectively; the bottom of the steel body is provided with an integrally formed milling tenon, which firmly locks the reinforcing sheet.

1. It can increase the strength of the plastic end cap and the ability to withstand high-speed operation, heavy load or harsh environment operation.
2. The gap between the reinforcement plate and the rail is 0.3mm max. It can completely obstruct the large foreign objects come into the block from the front side and protect the block from the damage of the metal chips.

### Design in general



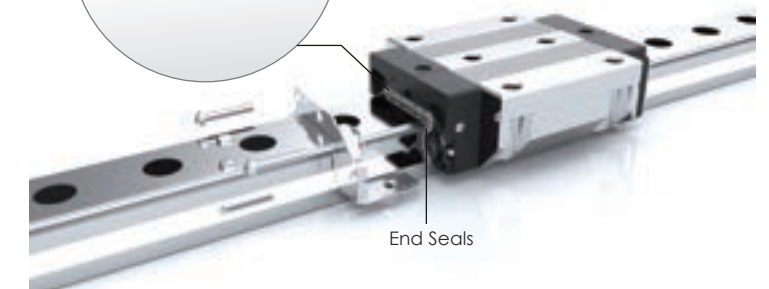
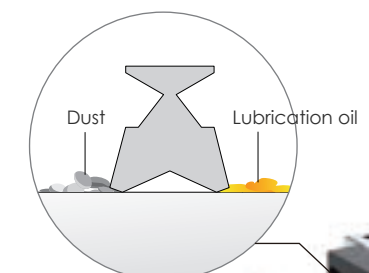
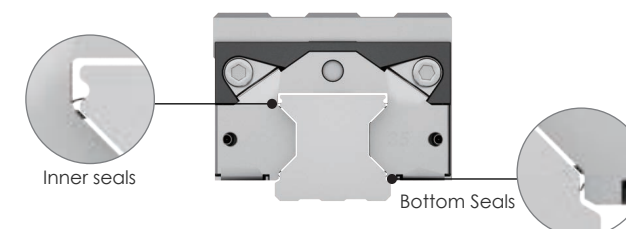
High speed impact, harsh environment, uncoated end caps which can easily damage the rotating end or stretched end caps.



L-shaped high-rigidity protection design

### Fully covered sealing design

The block of all models are equipped with contact-type "end seals", "bottom seals" and "inner seals". It can effectively prevent foreign particles, dust and wood chips from invading the block, and reduce the overflow of lubricating oil in the block.



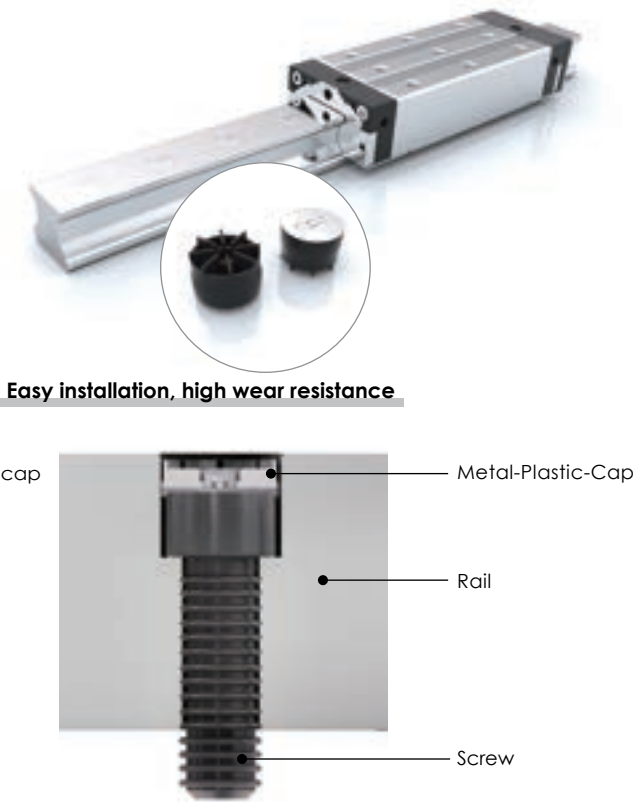
Fully sealed and dustproof design



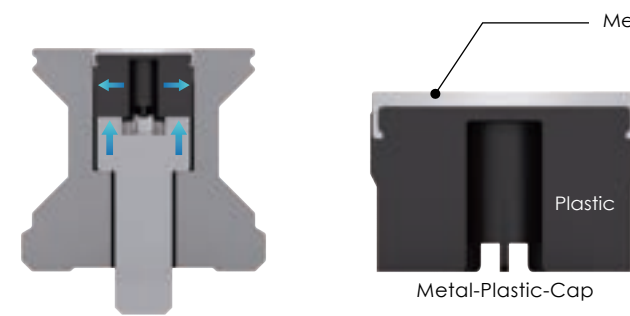
Dust-proof design

Patented metal plastic cap (optional)

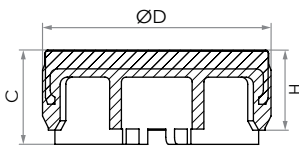
The upper part of the cap made of stainless steel can show excellent wear resistance in harsh environments. The inner side of the cap is equipped with a plastic fixed support part, which has the characteristics of easy installation. It can be directly installed on the standard rail. The support part contacts with the screw head screws to prevent by installation from beating too deeply; it can also prevent the cap is lowered due to the pressure of foreign matter above, causing foreign matter to accumulate, when the block moving.



Easy installation, high wear resistance



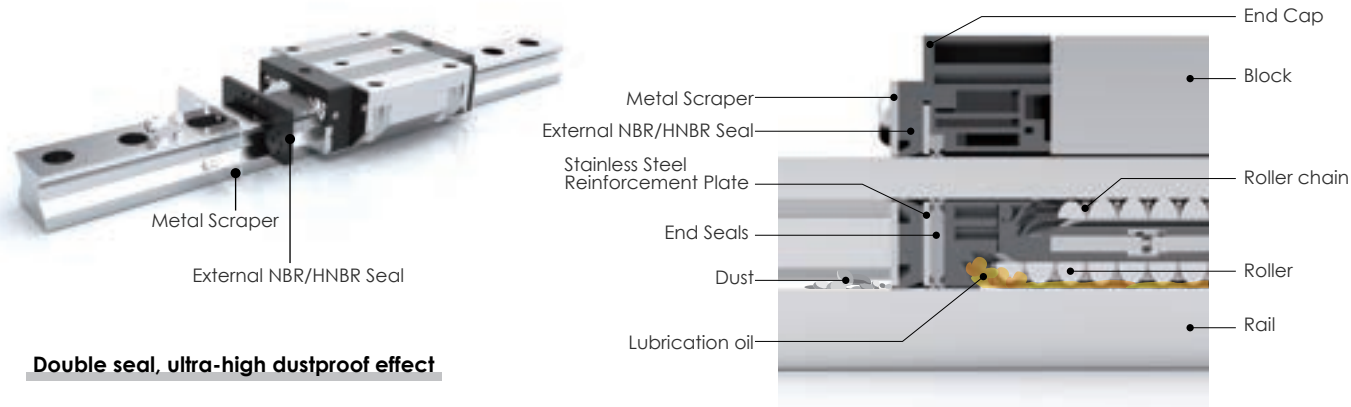
Dimensions and Specifications



Model Code	Screw	External Diameter D (mm)	Cup Height H (mm)	Block Height C (mm)	Rail
A4	M4	7.7	1.7	2.0	ARR15
A5	M5	9.7	3.4	4.0	ARR20
A6	M6	11.3	2.9	3.5	ARR25
A8-R	M8	14.3	8.0	9.5	ARR35
A12	M12	20.4	5.0	5.6	ARR45
A14	M14	24.4	6.0	6.5	ARR55

External NBR seal with metal scraper (optional)

For environments where is full of fine dust, such as woodworking machines, glass processing machines, graphite processing machines, and grinders, it can show a high dust resistance. There is stainless steel scraper on the outside of the seal, and the gap between the inner profile and the rail profile is only 0.2~0.3mm, which can prevent large foreign objects from damaging the rubber seal.



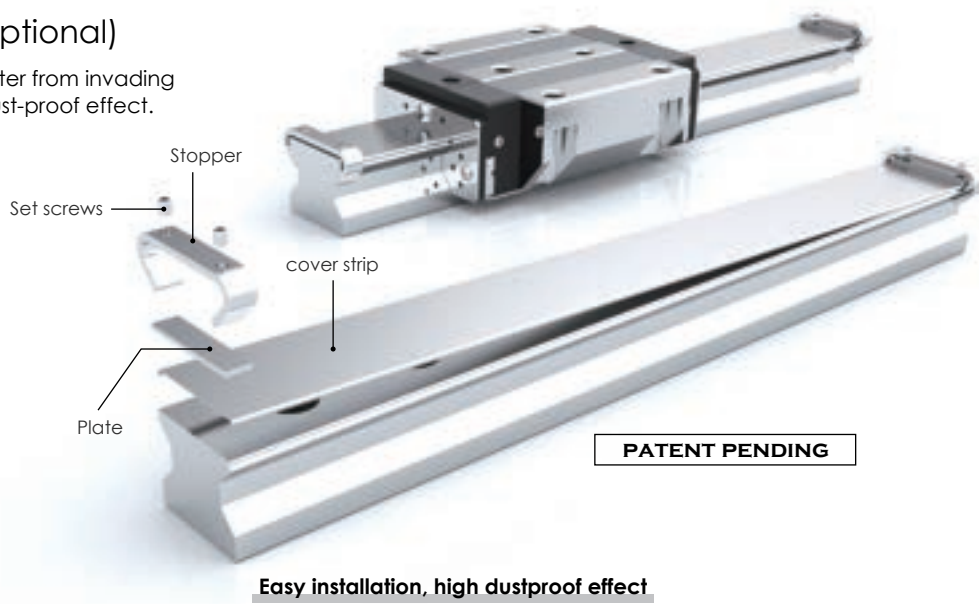
Double seal, ultra-high dustproof effect

Dust-proof design

Patented metal cover strip (optional)

The metal material can prevent foreign matter from invading harsh environments and has a super high dust-proof effect.

- 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



Easy installation, high dustproof effect

Metal cover strip 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."

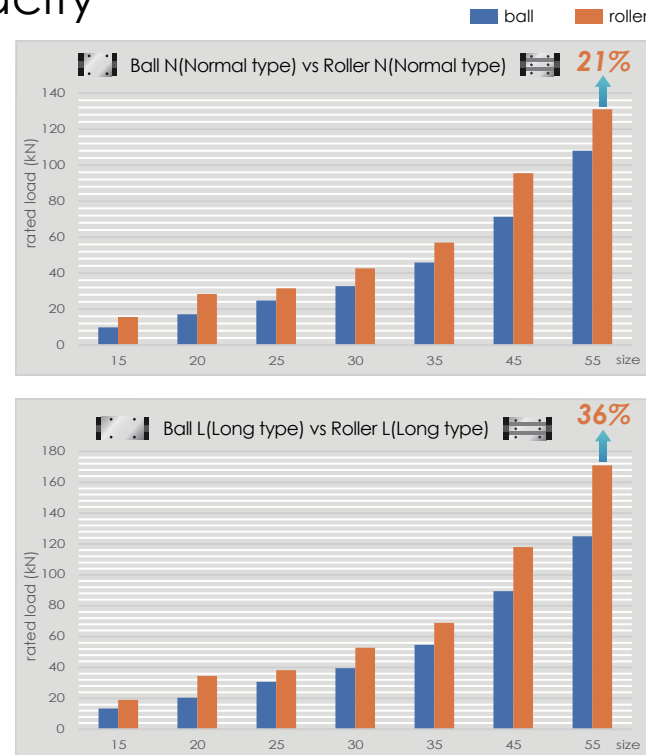
**STEP 6.**  
After the block and the rail are assembled, fix the other stopper on the other end of the cover strip.

**The installation is complete.**

## High rigidity and high load capacity

**Roller guide super high load capacity** ( $C_{100}$  Roller VS  $C_{100}$  Ball)

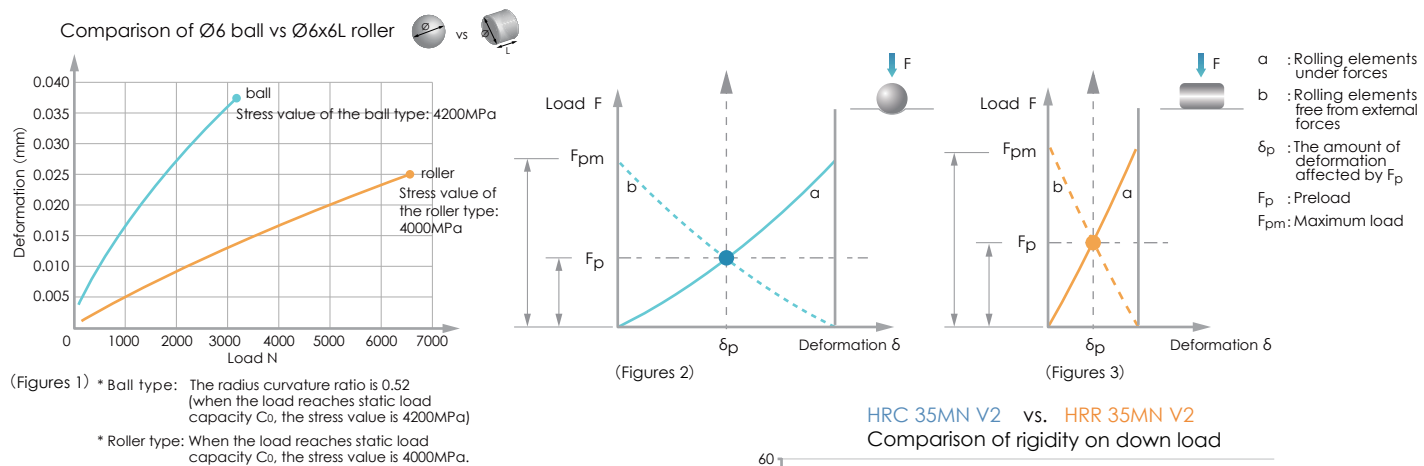
The load comparison value of each size of ball and roller block is shown in the chart. No matter in the N standard type, L long type and XL super long type, the load value of the roller is better. As shown in the chart, take size 55 as for example, the L long type of the roller is 36% higher than that of the ball long type, and the XL super long block is higher than the 22% of the L long type of the roller, achieving high torque and high load capacity.



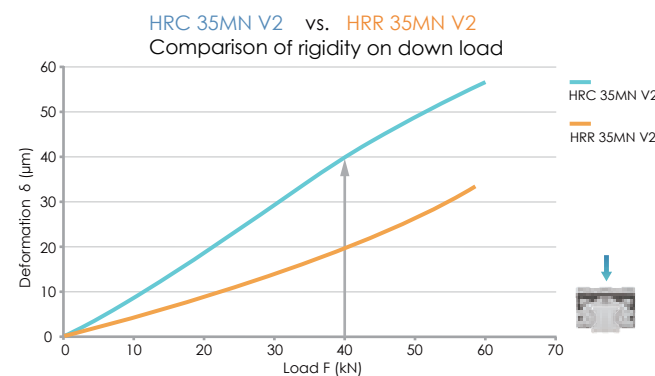
The rated load of the super long roller type is **22%** higher than that of the long roller type (at 55MXL)

## Roller guide ultra-high rigidity

The relationship between the deformation of the rolling element and the load is not linear. If the greater the deformation, the load will increase non-linearly. As the load increases, the difference in the deformation of a roller and a ball becomes clear (Figure 1). The selection of preload must take into account the requirements of the installation equipment and devices. Generally speaking, the ratio between the selection of preload and the load value can be referred to as shown in Figures 2 and 3. When the load value exceeds  $F_{pm}$ , the preload of the rolling element in one direction will disappear, resulting in no preload. If you choose to work with preload, you should pay attention to the force condition under the maximum load to select the preload. However, excessive preload will reduce the service life and reduce the relubrication interval.

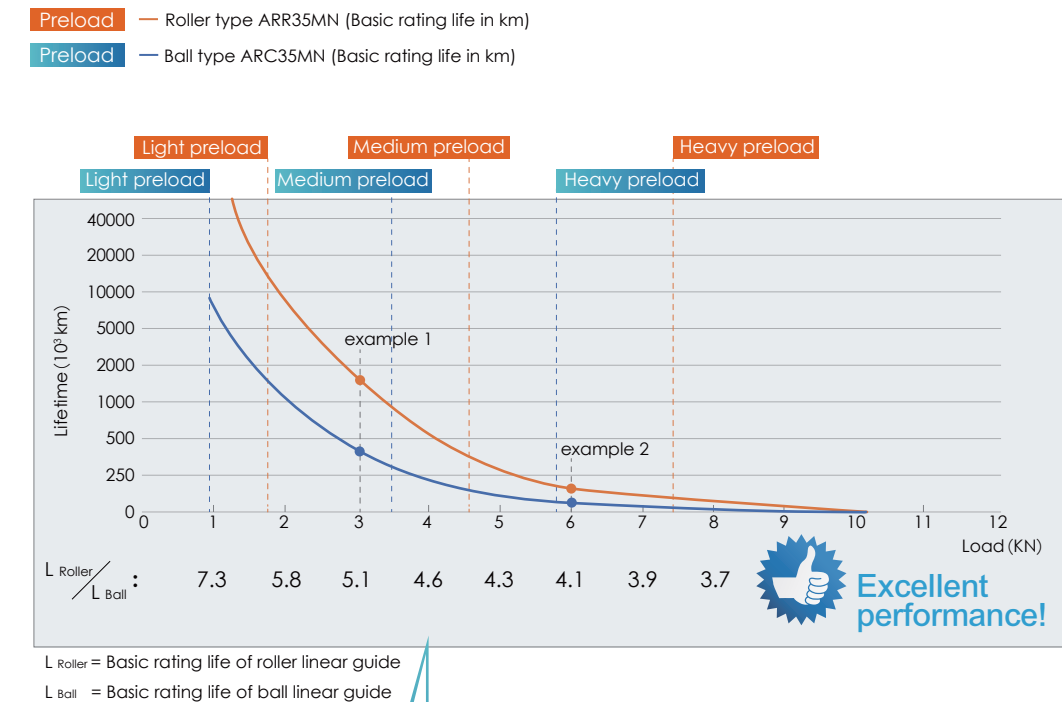


Compared to balls of the same size, the deformation of the rollers is not only less, but also the number of rolling elements that are loaded at the same time is larger than that of the balls, whereby the rollers present excellent high-precision performance. The right figure shows the result of the stiffness test with the load applied. The deformation of the roller is only 40-50% of the ball guide. (when a load of 40 kN).



## The service life of the roller guides significantly improved

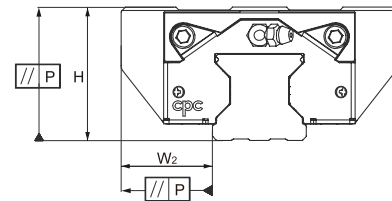
When the equivalent load  $P$  is the same because the dynamic load rating of the roller type is larger, the service life is longer. Especially under light load conditions, the difference in service life between the roller type and the ball type can be highlighted.



Roller	ARR 35 MN	$C_{Roller} = 57000$ N $C_0_{Roller} = 154000$ N	Ball	ARC 35 MN	$C_{Ball} = 45900$ N $C_0_{Ball} = 82900$ N	$C$ = Dynamic load rating N $C_0$ = Static load rating N $L$ = Basic rating life km $P$ = Equivalent load N
Calculation example 1: When $P$ is 3000N			Calculation example 2: When $P$ is 6000N			
$\frac{C_{Roller}}{P} = 19$			$\frac{C_{Ball}}{P} = 15.3$			
$L_{Roller} = (19)^{\frac{10}{3}} \cdot 10^2$			$L_{Ball} = (15.3)^{\frac{10}{3}} \cdot 10^2$			
$L_{Roller} / L_{Ball} \approx 5.1$			$\frac{C_{Roller}}{P} = 9.5$			
			$\frac{C_{Ball}}{P} = 7.6$			
			$L_{Roller} = (9.5)^{\frac{10}{3}} \cdot 10^2$			
			$L_{Ball} = (7.6)^{\frac{10}{3}} \cdot 10^2$			
			$L_{Roller} / L_{Ball} \approx 4.1$			

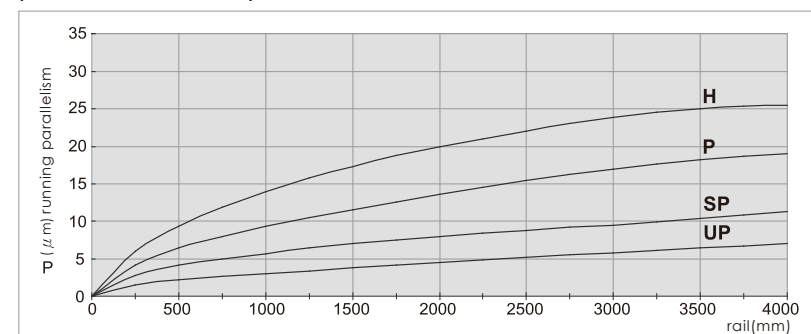
## Roller guide accuracy grade

The ARR/HRR/LRR linear guides provide 4 different grades of precision : H, P, SP, and UP. Engineers can choose different grades depending on the machine applications.



Size	Accuracy grades (μm)		UP	SP	P	H
15 ~ 20	Tolerance of dimension height H	H	± 5	± 10	± 15	± 30
	Variation of height for different runner blocks on the same position of Rail	Δ H	3	5	6	10
	Tolerance of dimension width W <sub>2</sub>	W <sub>2</sub>	± 5	± 7	± 10	± 20
	Variation of width for different runner blocks on the same position of Rail	Δ W <sub>2</sub>	3	5	7	15
25 ~ 35	Tolerance of dimension height H	H	± 5	± 10	± 20	± 40
	Variation of height for different runner blocks on the same position of Rail	Δ H	3	5	7	15
	Tolerance of dimension width W <sub>2</sub>	W <sub>2</sub>	± 5	± 7	± 10	± 20
	Variation of width for different runner blocks on the same position of Rail	Δ W <sub>2</sub>	3	5	7	15
45 ~ 55	Tolerance of dimension height H	H	± 5	± 10	± 20	± 40
	Variation of height for different runner blocks on the same position of Rail	Δ H	3	5	7	15
	Tolerance of dimension width W <sub>2</sub>	W <sub>2</sub>	± 5	± 7	± 10	± 20
	Variation of width for different runner blocks on the same position of Rail	Δ W <sub>2</sub>	3	5	7	15

Runner block relative to linear guide, datum plane parallel motion precision



## Roller guide preload and clearance

ARR/HRR/LRR			
Class	Description	Preload Value	Application
V0	Clearance	0.03C	For precision situations, smooth motion
V1	Medium Preload	0.08C	High stiffness, precision, high load situations
V2	Heavy Preload	0.13C	Super high stiffness, precision and load capacity

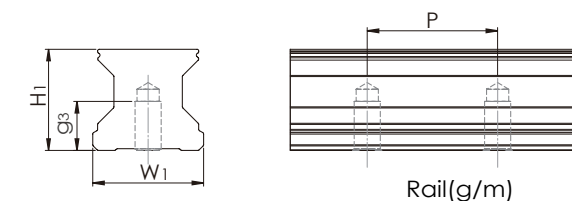
## Major applications Selection of accuracy and preload

The table shows examples of accuracy grade and preload of linear guides for specific purposes. Refer to this table when selecting accuracy grade and preload type for your application.

Type of machine	Application	Accuracy grade				Preload and clearance		
		Precision class H	Precision class P	Precision class SP	Precision class UP	V0 Light Preload	V1 Medium Preload	V2 Heavy Preload
Machine tools	Machining centers		●	●			●	●
	Grinders			●	●		●	●
	Lathes		●	●			●	●
	Milling machines		●	●			●	●
	Drilling machines		●	●			●	●
	Tapping machines	●	●				●	●
	Laser cutting machines	●	●	●			●	
	Electric discharge machines		●	●	●		●	●
Industrial machines and equipment	Press machines	●	●			●	●	
	Welding machines	●	●			●	●	
	Automatic spray painting machines	●				●		
	Automatic coil winding machines	●				●	●	
	Woodworking machines	●	●			●	●	
	Glass processing machines	●				●		
	Tire forming machines	●				●		
	Industrial robots	●	●			●	●	
	Materials handling equipment	●				●		
Semiconductor facilities	Probers			●		●	●	
	Wire bonders	●	●			●	●	
	PCB drillers	●	●			●	●	
	Dicing machine			●	●		●	
	Chip mounters	●	●			●	●	
	Mask Aligner			●	●	●	●	
Others	Measuring / inspection equipment	●	●	●	●	●		
	Three-dimensional measuring equipment	●	●	●	●	●	●	
	Medical equipment	●	●	●		●		
	Precision XY table	●	●	●		●	●	
	Injection molding machine	●					●	●
	OA equipment	●				●	●	

## Dimensions Table

Rail (tapped from the bottom)



Model Code	W1	H1	P	Mxg3	Lmax	Mass (g/m)
ARRU 15	15	16.4	30	M5x8	4000	1500
ARRU 20	20	21	30	M6x10	4000	2400
ARRU 25	23	23	30	M6x12	4000	3000
ARRU 35	34	31	40	M8x15	4000	5740
ARRU 45	45	38	52.5	M12x19	4000	10000
ARRU 55	53	45	60	M14x24	4000	10000



Lubrication methods and precautions for roller guides

Function

When operating the linear guides under sufficient lubrication, a one-micron layer of the oil film at the contact zone separating the loaded rolling elements and the raceway.

Sufficient lubrication will:  
- Reduce the friction      - Minimize wear      - Prevent oxidation      - Dissipate heat and increase operating life.

Lubrication methods and note on lubrication

- 1. The block already contains lubricants that can be directly installed on the machine without additional cleaning.
- 2. If cleaning of the block is required which the oil storage is equipped, please wait until the cleanser and clean naphtha in the oil storage are dry, and then put the block in lubricating oil, so that the oil storage can absorb enough lubricating oil before it will be installed in Machine.
- 3. Before the first start-up, the carriage and the rail must be protected by adding lubricating grease and contact with liquid or solid contaminants must be avoided.
- 4. The **cpc** block is provided with lubrication holes at the front and rear ends, as well as left and right and on the top. The grease can be injected into the block through the holes. The amount of grease required for a single block is given in the table below.
- 5. The block must run back and forth while lubricating.
- 6. Must consistently provide an oil film on the surface of the rail, which is easily noticeable optically.
- 7. If dry and discolored, relubrication should be carried out immediately, and the relubrication interval should be determined according to the environment and conditions of use.
- 8. The user must inform in advance if it is used in a cleanroom environment or requires acid and alkali resistance.
- 9. If the use of a guide deviates from the horizontal installation, the use of oil lubrication must be carefully checked.
- 10. The re-lubrication interval must be shortened if the travel stroke is < 2 or > 15 times the length of the steel body of the runner block.
- 11. If the stroke is less than two times the steel body of the block, the grease must be injected through the lubrication hole from the left and right of the block and then run on a rail that is at least three times the length of the block to distribute the grease evenly in the block. Repeat this step twice.
- 12. For the central lubrication system, **cpc** recommends the use of liquid grease NLGI 00 or NLGI 000.

Note on oil lubrication

- 1. Please indicate "lubricating with oil: O" on order; the block will not be pre-lubricated with grease.
- 2. If the block already has grease inside and the grease is different from the grease set by the customer or has exceeded the 12-month shelf life, you must clean the block before assembling. Test the lubricants to avoid grease incompatibility. Ensure that the channel is free, and the lubricant can flow to the rolling elements and be lubricated.
- 3. If using the grease nipple combined with the tubing kit or the set screws for the lubricating oil inlet channel, must wrap it with a tapesal to achieve a leakproof effect.

Order code Description of the lubricant for the roller guide

Lubrication method	
Model Code	Description
No symbol	Grease is applied to the block. The amount of grease is for installation only. After installation, the customer must be filled with grease.
A	Only use anti-rust oil for primary treatment.
F	Fully lubricated, customers can install and use directly.
N	No grease, only with rust-proof paper packaging.
O	Use lubricant oil.

Note: If the customer orders lubrication storage Z, the lubrication storage will be soaked with lubricant oil (according to the order code) and then lubricated according to the lubrication mentioned

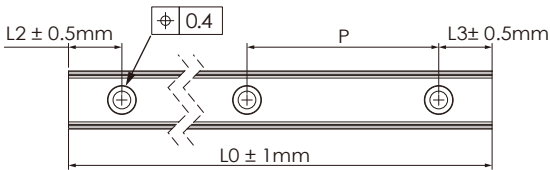
Lubricant code

Grease	
Model Code	Application
No symbol	Standard grease, lithium soap-based NLGI No.0, high-pressure and high-performance grease, suitable for general purpose.
A	For cleanroom application. Please contact <b>cpc</b> for cleanroom classes.
B	For the food and pharmaceutical processing industry
C	For heavy duty application
D	For short stroke application
E	Vacuum grease, please contact <b>cpc</b> for vacuum requirements.
F	Customer specified grease
Oil	
Model Code	Application
No symbol	VG 220 standard oil, suitable for general purpose. It is also used for cpc lubrication storage.
L	VG 68
M	VG 100
N	VG 150
P	For the food and pharmaceutical processing industry
Q	Vacuum grease, please contact <b>cpc</b> for vacuum requirements.
S	Customer specified grease

Ordering Information

Length of Rail

Butt-jointing is required when lengths exceed Lmax.  
(For more detailed information, please contact **cpc** for technical support.)



Model Code

ARR	U	35	M	N	S	2	Z	C	V1	P	-1480L	-20	-20	-O	-	II	/J
Customization code																	
Number of rails on the same moving axis																	
Lubricant: VG 220 (For detailed ordering code, please refer to P65 Grease Order model description)																	
Lubrication: oil (For detailed ordering code, please refer to P65 Grease Ordering Model Description)																	
End hole pitch(mm)																	
Starting hole pitch(mm)																	
Rail length(mm)																	
Accuracy grade: UP, SP, P, H																	
Preload class: V0, V1, V2																	
C: with roller chain																	
Z: with lubrication storage pad																	
Block quantity																	
Seal type: S: standard																	
Block length: N: standard L: long XL: extra long																	
Block width: M: standard F: flanged																	
Block type: 15、20、25、35、45、55																	
U: Rail (tapped from the bottom)																	
Product type: ARR: Low Profile Type HRR: High Profile Type LRR: Extremely Low Profile Type																	

Customization code(The meaning of suffix characters)

J : slide rail connection	R : special process for rail	SG : installation of side grease holes and set screws
G : customer designated lubricant	VD : customized designated preload pressure value	PC : with plastic caps for counter holes on the rail
I : with Inspection report	OA : block install with grease nipple by <b>cpc</b> ( Please contact <b>cpc</b> for direction of grease nipple installation)	MPC : with Metal-Plastic Caps for rail mounting holes.
S : special straightness requirements for rail	DE : reference edges of block and rail on opposite sides	TR : bolt-Hole without chamfer
B : special processing for block	HN : external HNBR seal with metal scraper	
BL : with extension and contraction support layer.		
SN : external NBR seal with metal scraper		
BR : black chrome coating treatment on the rail	CR : clear chrome coating treatment on the rail	RR : raydent coating treatment on the rail
BB : black chrome coating treatment on the block	CB : clear chrome coating treatment on the block	RB : raydent coating treatment on the block
BRB : black chrome coating treatment on the block and rail	CRB : clear chrome coating treatment on the block and rail	RRB : raydent coating treatment on the block and rail
SB : with stainless steel ball bearings	NR : nickel coating treatment on the rail	NB : nickel coating treatment on the block
NRB : nickel coating treatment on the block and rail		

Note: For special process or customized requirement, please contact **cpc** for more information.  
\* The end pitch of the rail should not exceed the 1/2 of original pitch, this is to avoid the misfit of the rail to the workbench.

Dimensions Table



ARR 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 <sub>2</sub>	W <sub>1</sub> 0-0.05	H <sub>1</sub>	P	Dxdxg <sub>1</sub>	W	L	L <sub>1</sub>	h <sub>2</sub>	P <sub>1</sub>	P <sub>1</sub> /2	P <sub>2</sub>	P <sub>2</sub> /2	P <sub>3</sub>	M x g <sub>2</sub>	M <sub>1</sub>	T	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	E	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>	C <sub>iso</sub> 100km	C <sub>0</sub>	M <sub>r0</sub>	M <sub>p0</sub>	M <sub>y0</sub>	Block (g)	Rail (g/m)	
ARR 15MN	24	9.5	15	16.4	30	7.5x4.5x5.3	34	68.4	46	21.1	26	-	26	13	26	M4x7	-	8	M3x6	M3x4.5	P3	5.3	3.5	6.6	15	14	15.6	43	400	320	320	170	1500	ARR 15MN
ARR 15ML								83.4	61		26				26										22.5	21.5	19	55.3	530	560	560	230		ARR 15ML
ARR 20MN	30	12	20	21	30	9.5x6x8.5	44	85.6	60	25.6	36	-	32	16	36	M5x8	-	9	M4x8	M4x6.5	P3	6	4.4	8.3	17	16.5	28.4	76.8	900	730	730	350	2400	ARR 20MN
ARR 20ML								106.6	81		50				50										20.5	20	35.5	102	1250	1300	1300	490		ARR 20ML
ARR 25MN	36	12.5	23	23	30	11x7x9	48	95	67	31	35	-	35	17.5	35	M6x10	-	10	M6x8.5	M6x7.5	P4	12	6.5	11	21.4	20.5	31.6	84	1200	950	950	540	3000	ARR 25MN
ARR 25ML								114	86		50				50										23.4	22.5	38.3	108	1550	1550	1550	680		ARR 25ML
ARR 35MN	48	18	34	31	40	14x9x17	70	122	84	42	50	-	50	25	50	M8x13	-	13	M6x12	M6x8	P5	12	10	16.4	25	25	57	154	2742	1946	1946	1200	5740	ARR 35MN
ARR 35ML								147.5	109.5		72				72										26.7	26.7	68.9	196	3525	3226	3226	1750		ARR 35ML
ARR 45MN	60	20.5	45	38	52.5	20x14x17	86	156	110	52	60	-	60	30	60	M10x17	-	13	M6x12	M6x8	P6	12	14.6	21.8	39.2	36	95.9	255	6350	4450	4450	2600	10000	ARR 45MN
ARR 45ML								191	145		80				80										46.7	43.5	118	333	8450	7700	7700	3350		ARR 45ML
ARR 55MN	70	23.5	53	45	60	24x16x20	100	182.4	130	60	75	-	75	37.5	75	M12x19	-	18	M6x12	M6x9	P6	12	15	22	41.5	39.7	131	338	9750	7100	7100	4500	12700	ARR 55MN
ARR 55ML								233.4	181		95				95										57	55.2	171	476	13900	13950	13950	5900		ARR 55ML

1. N2 = Injecting holes  
2. N3 = O-ring size for lubrication from above  
3. N2, N3 will be sealed before shipmant, please open it when first using the product.  
4. Please refer to the catalog P11 for the size of the screw hole of the reinforcement sheet.

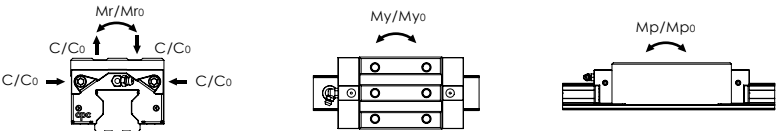
The above rating load capacities and static moments are calculated according to the ISO14728 standard.  
The rating life for basic dynamic load ratings is defined as the total 100km travel distance for 90% of a group of identical linear guides, under the same conditions and free from any material damage caused by rolling fatigue.

ARR MN/ML...C Series (Roller chain type)

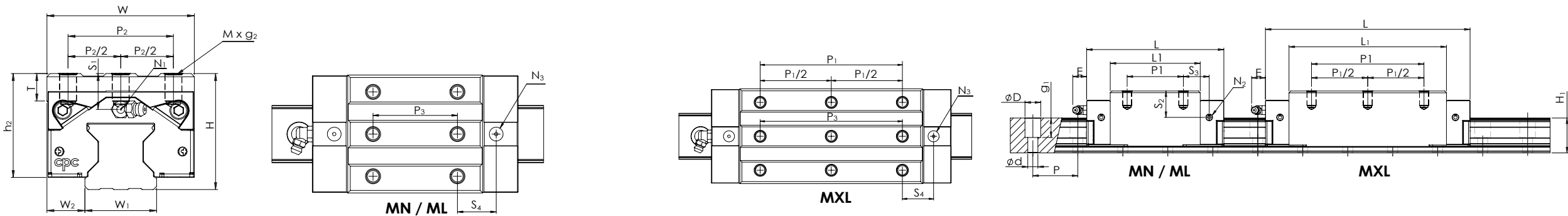
Model Code	Mounting Dimensions		Rail Dimensions (mm)				Block Dimensions (mm)											Block Dimensions (mm)								Load Capacities (kN)		Static Moment (Nm)			Weight		Model Code	
	H	W <sub>2</sub>	W <sub>1</sub> 0-0.05	H <sub>1</sub>	P	Dxdxg <sub>1</sub>	W	L	L <sub>1</sub>	h <sub>2</sub>	P <sub>1</sub>	P <sub>1</sub> /2	P <sub>2</sub>	P <sub>2</sub> /2	P <sub>3</sub>	M x g <sub>2</sub>	M <sub>1</sub>	T	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	E	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>	C <sub>cage</sub> 100km	C <sub>0</sub>	M <sub>r0</sub>	M <sub>p0</sub>	M <sub>y0</sub>	Block (g)		Rail (g/m)
ARR 15MN...C	24	9.5	15	16.4	30	7.5x4.5x5.3	34	68.4	46	21.1	26	-	26	13	26	M4x7	-	8	M3x6	M3x4.5	P3	5.3	3.5	6.6	15	14	19.5	36.8	360	280	280	170	1500	ARR 15MN...C
ARR 15ML...C								83.4	61		26				26										22.5	21.5	23.8	49.1	460	480	480	230		ARR 15ML...C
ARR 20MN...C	30	12	20	21	30	9.5x6x8.5	44	85.6	60	25.6	36	-	32	16	36	M5x8	-	9	M4x8	M4x6.5	P3	6	4.4	8.3	17	16.5	35.5	65.8	840	670	670	350	2400	ARR 20MN...C
ARR 20ML...C								106.6	81		50				50										20.5	20	45	88	1100	1200	1200	490		ARR 20ML...C
ARR 25MN...C	36	12.5	23	23	30	11x7x9	48	95	67	31	35	-	35	17.5	35	M6x10	-	10	M6x8.5	M6x7.5	P4	12	6.5	11	21.4	20.5	40	76	1100	850	850	540	3000	ARR 25MN...C
ARR 25ML...C								114	86		50				50										23.4	22.5	48	96	1360	1360	1360	680		ARR 25ML...C
ARR 35MN...C	48	18	34	31	40	14x9x17	70	122	84	42	50	-	50	25	50	M8x13	-	13	M6x12	M6x8	P5	12	10	16.4	25	25	71.3	133	2350	1710	1710	1200	5740	ARR 35MN...C
ARR 35ML...C								147.5	109.5		72				72										26.7	26.7	86.1	175	3133	2881	2881	1750		ARR 35ML...C
ARR 45MN...C	60	20.5	45	38	52.5	20x14x17	86	156	110	52	60	-	60	30	60	M10x17	-	13	M6x12	M6x8	P6	12	14.6	21.8	39.2	36	120	222	5750	4050	4050	2600	10000	ARR 45MN...C
ARR 45ML...C								191	145		80				80										46.7	43.5	147.5	288	7550	6900	6900	3350		ARR 45ML...C
ARR 55MN...C	70	23.5	53	45	60	24x16x20	100	182.4	130	60	75	-	75	37.5	75	M12x19	-	18	M6x12	M6x9	P6	12	15	22	41.5	39.7	164	292	8600	6350	6350	4500	12700	ARR 55MN...C
ARR 55ML...C								233.4	181		95				95										57	55.2	214	415	12250	12300	12300	5900		ARR 55ML...C

1. N2 = Injecting holes  
2. N3 = O-ring size for lubrication from above  
3. N2, N3 will be sealed before shipmant, please open it when first using the product.  
4. 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 Ccage.  
The above static load rating and the static moment are calculated according to the ISO 14728 standard.



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	W2	W1 0 -0.05	H1	P	Dxdxg1	W	L	L1	h2	P1	P1/2	P2	P2/2	P3	M x g2	M1	T	N1	N2	N3	E	S1	S2	S3	S4	Ciso 100km	C0	Mro	Mpo	Myo	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	15	14	15.6	43	400	320	320	210	1500	HRR 15MN
HRR 15ML								83.4	61		26	-			26						P3	5.3	7.5	10.6	22.5	21.5	19	55.3	530	560	560	290		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	17	16.5	28.4	76.8	900	730	730	420	2400	HRR 20MN
HRR 20ML								106.6	81		50	-			50						P3	6	8.4	12.3	20.5	20	35.5	102	1250	1300	1300	490		HRR 20ML
HRR 25MN	40	12.5	23	23	30	11x7x9	48	95	67		35	-			35						P4	12	10.5	15	21.4	20.5	31.6	84	1200	950	950	620	3000	HRR 25MN
HRR 25ML								114	86	35	50	-	35	17.5	50	M6x10	-	10	M6x8.5	M6x7.5	P4	12	10.5	15	23.4	22.5	38.3	108	1550	1550	1550	800		HRR 25ML
HRR 25MXL								133.4	105.4		70	35			70						P4	12	10.5	15	23.1	22.2	44.8	132	1900	2300	2300	950		HRR 25MXL
HRR 35MN	55	18	34	31	40	14x9x17	70	122	84		50	-			50						P5	12	17	23.4	25	25	57	154	2742	1946	1946	1720	5740	HRR 35MN
HRR 35ML								147.5	109.5	49	72	-	50	25	72	M8x16	-	13	M6x12	M6x8	P5	12	17	23.4	26.7	26.7	68.9	196	3525	3226	3226	2100		HRR 35ML
HRR 35MXL								177.5	139.5		100	50			100						P5	12	17	23.4	27.7	27.7	82	245	4439	5111	5111	2700		HRR 35MXL
HRR 45MN	70	20.5	45	38	52.5	20x14x17	86	156	110		60	-			60						P6	12	24.6	31.8	39.2	36	95.9	255	6350	4450	4450	3400	10000	HRR 45MN
HRR 45ML								191	145	62	80	-	60	30	80	M10x20	-	13	M6x12	M6x8	P6	12	24.6	31.8	46.7	43.5	118	333	8450	7700	7700	4300		HRR 45ML
HRR 45MXL								226	180		120	60			120						P6	12	24.6	31.8	44.2	41	138	410	10500	11800	11800	5200		HRR 45MXL
HRR 55MN	80	23.5	53	45	60	24x16x20	100	182.4	130		75	-			75						P6	12	25	32	41.5	39.7	131	338	9750	7100	7100	5500	12700	HRR 55MN
HRR 55ML								233.4	181	70	95	-	75	37.5	95	M12x19	-	18	M6x12	M6x9	P6	12	25	32	57	55.2	171	476	13900	13950	13950	7400		HRR 55ML
HRR 55MXL								290.4	238		150	75			150						P6	12	25	32	58	56.2	209	615	18050	23600	23600	9600		HRR 55MXL

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

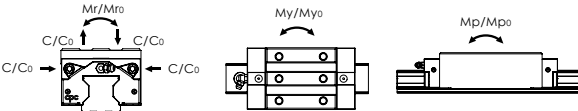
The above rating load capacities and static moments are calculated according to the ISO14728 standard. The rating life for basic dynamic load ratings is defined as the total 100km travel distance for 90% of a group of identical linear guides, under the same conditions and free from any material damage caused by rolling fatigue.

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	W2	W1 0 -0.05	H1	P	Dxdxg1	W	L	L1	h2	P1	P1/2	P2	P2/2	P3	M x g2	M1	T	N1	N2	N3	E	S1	S2	S3	S4	Ccage 100km	C0	Mro	Mpo	Myo	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	15	14	19.5	36.8	360	280	280	210	1500	HRR 15MN...C
HRR 15ML...C								83.4	61		26	-			26						P3	5.3	7.5	10.6	22.5	21.5	23.8	49.1	460	480	480	290		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	17	16.5	35.5	65.8	840	670	670	420	2400	HRR 20MN...C
HRR 20ML...C								106.6	81		50	-			50						P3	6	8.4	12.3	20.5	20	45	88	1100	1200	1200	490		HRR 20ML...C
HRR 25MN...C	40	12.5	23	23	30	11x7x9	48	95	67		35	-			35						P4	12	10.5	15	21.4	20.5	40	76	1100	850	850	620	3000	HRR 25MN...C
HRR 25ML...C								114	86	35	50	-	35	17.5	50	M6x10	-	10	M6x8.5	M6x7.5	P4	12	10.5	15	23.4	22.5	48	96	1360	1360	1360	800		HRR 25ML...C
HRR 25MXL...C								133.4	105.4		70	35			70						P4	12	10.5	15	23.1	22.2	56	120	1680	2000	2000	950		HRR 25MXL...C
HRR 35MN...C	55	18	34	31	40	14x9x17	70	122	84		50	-			50						P5	12	17	23.4	25	25	71.3	133	2350	1710	1710	1720	5740	HRR 35MN...C
HRR 35ML...C								147.5	109.5	49	72	-	50	25	72	M8x16	-	13	M6x12	M6x8	P5	12	17	23.4	26.7	26.7	86.1	175	3133	2881	2881	2100		HRR 35ML...C
HRR 35MXL...C								177.5	139.5		100	50			100						P5	12	17	23.4	27.7	27.7	102.5	224	4047	4695	4695	2700		HRR 35MXL...C
HRR 45MN...C	70	20.5	45	38	52.5	20x14x17	86	156	110		60	-			60						P6	12	24.6	31.8	39.2	36	120	222	5750	4050	4050	3400	10000	HRR 45MN...C
HRR 45ML...C								191	145	62	80	-	60	30	80	M10x20	-	13	M6x12	M6x8	P6	12	24.6	31.8	46.7	43.5	147.5	288	7550	6900	6900	4300		HRR 45ML...C
HRR 45MXL...C								226	180		120	60			120						P6	12	24.6	31.8	44.2	41	172.5	366	9650	10850	10850	5200		HRR 45MXL...C
HRR 55MN...C	80	23.5	53	45	60	24x16x20	100	182.4	130		75	-			75						P6	12	25	32	41.5	39.7	164	292	8600	6350	6350	5500	12700	HRR 55MN...C
HRR 55ML...C								233.4	181	70	95	-	75	37.5	95	M12x19	-	18	M6x12	M6x9	P6	12	25	32	57	55.2	214	415	12250	12300	12300	7400		HRR 55ML...C
HRR 55MXL...C								290.4	238		150	75			150						P6	12	25	32	58	56.2	261	553	16300	21300	21300	9600		HRR 55MXL...C

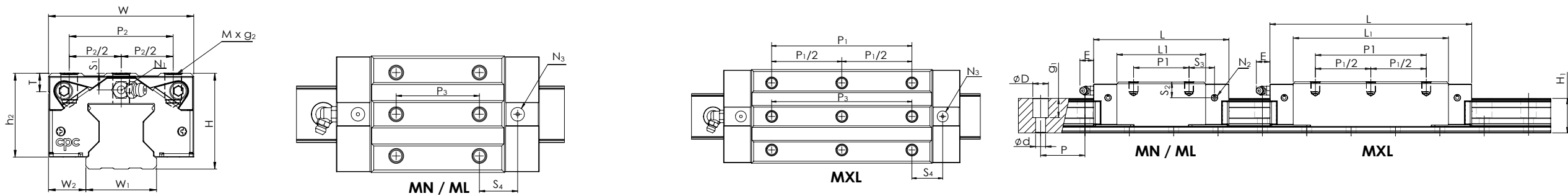
1. N2 = Injecting holes  
2. N3 = O-ring size for lubrication from above  
3. N2, N3 will be sealed before shipment, please open it when first using the product.  
4. Please refer to the catalog P11 for the size of the screw hole of the reinforcement sheet.

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





Dimensions Table



LRR 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	W2	W1 0 -0.05	H1	P	Dxdxg1	W	L	L1	h2	P1	P1/2	P2	P2/2	P3	M x g2	M1	T	N1	N2	N3	E	S1	S2	S3	S4	Ciso 100km	C0	Mro	Mpo	Myo	Block (g)	Rail (g/m)	
LRR 35MN	44	18	34	31	40	14x9x17	70	122	84	38	50	-	50	25	50	M8x9	-	9	M6x12	M6x8	P5	12	6	12.4	25	25	57	154	2742	1946	1946	1100	5740	LRR 35MN
LRR 35ML								147.5	109.5		72	-			72										26.7	26.7	68.9	196	3525	3226	3226	1500		LRR 35ML
LRR 35MXL								177.5	139.5		100	50			100										27.7	27.7	82	245	4439	5111	5111	1900		LRR 35MXL
LRR 45MN	52	20.5	45	38	52.5	20x14x17	86	156	110	44	60	-	60	30	60	M10x11	-	10	M6x12	M6x8	P6	12	6.6	13.8	39.2	36	95.9	255	6350	4450	4450	2100	10000	LRR 45MN
LRR 45ML								191	145		80	-			80										46.7	43.5	118	333	8450	7700	7700	2700		LRR 45ML
LRR 45MXL								226	180		120	60			120										44.2	41	138	410	10500	11800	11800	3200		LRR 45MXL
LRR 55MN	63	23.5	53	45	60	24x16x20	100	182.4	130	53	75	-	75	37.5	75	M12x16	-	15	M6x12	M6x9	P6	12	8	15	41.5	39.7	131	338	9750	7100	7100	3800	12700	LRR 55MN
LRR 55ML								233.4	181		95	-			95										57	55.2	171	476	13900	13950	13950	5100		LRR 55ML
LRR 55MXL								290.4	238		150	75			150										58	56.2	209	615	18050	23600	23600	6500		LRR 55MXL

1. N2 = Injecting holes  
2. N3 = O-ring size for lubrication from above  
3. N2, N3 will be sealed before shipmant, please open it when first using the product.  
4. Please refer to the catalog P11 for the size of the screw hole of the reinforcement sheet.

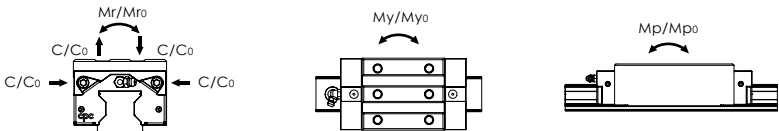
The above rating load capacities and static moments are calculated according to the ISO14728 standard.  
The rating life for basic dynamic load ratings is defined as the total 100km travel distance for 90% of a group of identical linear guides, under the same conditions and free from any material damage caused by rolling fatigue.

LRR 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	W2	W1 0 -0.05	H1	P	Dxdxg1	W	L	L1	h2	P1	P1/2	P2	P2/2	P3	M x g2	M1	T	N1	N2	N3	E	S1	S2	S3	S4	Ccage 100km	C0	Mro	Mpo	Myo	Block (g)	Rail (g/m)	
LRR 35MN...C	44	18	34	31	40	14x9x17	70	122	84	38	50	-	50	25	50	M8x9	-	9	M6x12	M6x8	P5	12	6	12.4	25	25	71.3	133	2350	1710	1710	1100	5740	LRR 35MN...C
LRR 35ML...C								147.5	109.5		72	-			72										26.7	26.7	86.1	175	3133	2881	2881	1500		LRR 35ML...C
LRR 35MXL...C								177.5	139.5		100	50			100										27.7	27.7	102.5	224	4047	4695	4695	1900		LRR 35MXL...C
LRR 45MN...C	52	20.5	45	38	52.5	20x14x17	86	156	110	44	60	-	60	30	60	M10x11	-	10	M6x12	M6x8	P6	12	6.6	13.8	39.2	36	120	222	5750	4050	4050	2100	10000	LRR 45MN...C
LRR 45ML...C								191	145		80	-			80										46.7	43.5	147.5	288	7550	6900	6900	2700		LRR 45ML...C
LRR 45MXL...C								226	180		120	60			120										44.2	41	172.5	366	9650	10850	10850	3200		LRR 45MXL...C
LRR 55MN...C	63	23.5	53	45	60	24x16x20	100	182.4	130	53	75	-	75	37.5	75	M12x16	-	15	M6x12	M6x9	P6	12	8	15	41.5	39.7	164	292	8600	6350	6350	3800	12700	LRR 55MN...C
LRR 55ML...C								233.4	181		95	-			95										57	55.2	214	415	12250	12300	12300	5100		LRR 55ML...C
LRR 55MXL...C								290.4	238		150	75			150										58	56.2	261	553	16300	21300	21300	6500		LRR 55MXL...C

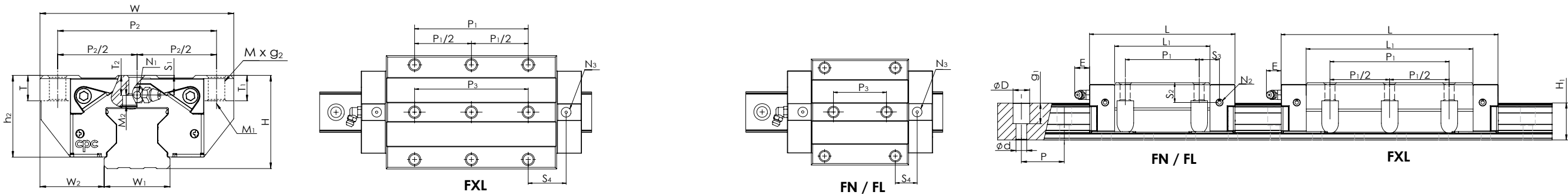
1. N2 = Injecting holes  
2. N3 = O-ring size for lubrication from above  
3. N2, N3 will be sealed before shipmant, please open it when first using the product.  
4. Please refer to the catalog P11 for the size of the screw hole of the reinforcement sheet.

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





Dimensions Table



LRR FN/FL/FXL 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 <sub>2</sub>	W <sub>1</sub> 0-0.05	H <sub>1</sub>	P	Dx dx G <sub>1</sub>	W	L	L <sub>1</sub>	h <sub>2</sub>	P <sub>1</sub>	P <sub>1</sub> /2	P <sub>2</sub>	P <sub>2</sub> /2	P <sub>3</sub>	M x G <sub>2</sub>	M <sub>1</sub>	M <sub>2</sub>	T	T <sub>1</sub>	T <sub>2</sub>	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	E	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>	C <sub>iso</sub> 100km	C <sub>0</sub>	M <sub>r0</sub>	M <sub>p0</sub>	M <sub>y0</sub>		Block (g)	Rail (g/m)
LRR 35FN	44	33	34	31	40	14x9x17	100	122	84	38	62	-	82	41	52	M10x13	M8	5	9	13	6.7	M6x12	M6x8	P5	12	6	12.4	19	19	57	154	2742	1946	1946	1550	5740	LRR 35FN
LRR 35FL								147.5	109.5		-	-			-													31.7	31.7	68.9	196	3525	3226	3226	2200		LRR 35FL
LRR 35FXL								177.5	139.5		100	50			100													27.7	27.7	82	245	4439	5111	5111	2800		LRR 35FXL
LRR 45FN	52	37.5	45	38	52.5	20x14x17	120	156	110	44	80	-	100	50	60	M12x15	M10	6	10	15	7.3	M6x12	M6x8	P6	12	6.6	13.8	29.2	26	95.9	255	6350	4450	4450	2900	10000	LRR 45FN
LRR 45FL								191	145		-	-			-													46.7	43.5	118	333	8450	7700	7700	3800		LRR 45FL
LRR 45FXL								226	180		120	60			120													44.2	41	138	410	10500	11800	11800	4500		LRR 45FXL
LRR 55FN	63	43.5	53	45	60	24x16x20	140	182.4	130	53	95	-	116	58	70	M14x18	M12	7	15	18	9.8	M6x12	M6x9	P6	12	8	15	31.5	29.7	131	338	9750	7100	7100	5200	12700	LRR 55FN
LRR 55FL								233.4	181		-	-			-													57	55.2	171	476	13900	13950	13950	7100		LRR 55FL
LRR 55FXL								290.4	238		150	75			150													58	56.2	209	615	18050	23600	23600	9100		LRR 55FXL

1. N2 = Injecting holes

2. N3 = O-ring size for lubrication from above

3. N2, N3 will be sealed before shipment, please open it when first using the product.

4. Mxg², M1: Screw size according to ISO 4762-12.9

5. M2 countersunk screw size according to DIN 7984-8.8

6. 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 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.

LRR FN/FL/FXL 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 <sub>2</sub>	W <sub>1</sub> 0-0.05	H <sub>1</sub>	P	D×d×g <sub>1</sub>	W	L	L <sub>1</sub>	h <sub>2</sub>	P <sub>1</sub>	P <sub>1</sub> /2	P <sub>2</sub>	P <sub>2</sub> /2	P <sub>3</sub>	M×g <sub>2</sub>	M <sub>1</sub>	M <sub>2</sub>	T	T <sub>1</sub>	T <sub>2</sub>	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	E	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>	C <sub>cage</sub> 100km	C <sub>0</sub>	M <sub>r0</sub>	M <sub>p0</sub>	M <sub>y0</sub>		Block (g)	Rail (g/m)
LRR 35FN...C	44	33	34	31	40	14x9x17	100	122	84	38	62	-	82	41	52	M10x13	M8	5	9	13	6.7	M6x12	M6x8	P5	12	6	12.4	19	19	71.3	133	2350	1710	1710	1550	5740	LRR 35FN...C
LRR 35FL...C								147.5	109.5		-	-			-													31.7	31.7	86.1	175	3133	2881	2881	2200		LRR 35FL...C
LRR 35FXL...C								177.5	139.5		100	50			100													27.7	27.7	102.5	224	4047	4695	4695	2800		LRR 35FXL...C
LRR 45FN...C	52	37.5	45	38	52.5	20x14x17	120	156	110	44	80	-	100	50	60	M12x15	M10	6	10	15	7.3	M6x12	M6x8	P6	12	6.6	13.8	29.2	26	120	222	5750	4050	4050	2900	10000	LRR 45FN...C
LRR 45FL...C								191	145		-	-			-													46.7	43.5	147.5	288	7550	6900	6900	3800		LRR 45FL...C
LRR 45FXL...C								226	180		120	60			120													44.2	41	172.5	366	9650	10850	10850	4500		LRR 45FXL...C
LRR 55FN...C	63	43.5	53	45	60	24x16x20	140	182.4	130	53	95	-	116	58	70	M14x18	M12	7	15	18	9.8	M6x12	M6x9	P6	12	8	15	31.5	29.7	164	307	8600	6350	6350	5200	12700	LRR 55FN...C
LRR 55FL...C								233.4	181		-	-			-													57	55.2	214	430	12200	12300	12300	7100		LRR 55FL...C
LRR 55FXL...C								290.4	238		150	75			150													58	56.2	261	553	16300	21300	21300	9100		LRR 55FXL...C

1. N2 = Injecting holes

2. N3 = O-ring size for lubrication from above

3. N2, N3 will be sealed before shipment, please open it when first using the product.

4. Mxg², M1: Screw size according to ISO 4762-12.9

5. M2 countersunk screw size according to DIN 7984-8.8

6. 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 Ccage. The above static load rating and the static moment are calculated according to the ISO 14728 standard.

