

Profile Rail Linear Guides

Welcome to LINTECH®



For over 50 years *LINTECH* has designed, engineered, and manufactured linear positioning components for use in a wide range of applications. Whether it is a standard positioning component or a custom positioning assembly, *LINTECH* takes great pride in manufacturing a quality product.

At LINTECH we are proud to provide the motion control user with this product guide. It was developed to assist you with the design, selection, and implementation of mechanical positioning components.

Depending on the requirements, standard positioning components, or systems, can often be assembled and shipped in less than 2 weeks. Custom positioning assemblies require a different approach. We evaluate your special application, use our many years of experience to guide you, and then manufacture a quality product designed to meet your performance specifications.

LINTECH's technical support consists of a well trained inside customer service department, an experienced application engineering staff, and a versatile machining facility.

Our local technical support group consists of Automation Specialists located throughout the World. These Automation Specialists are experienced in the use of electronic and mechanical motion control products. They are well trained on the performance capabilities of *LINTECH* positioning components.

LINTECH is constantly designing new products and improving upon the many options available with our standard products. Whether it is a standard or custom positioning system required, visit our website, call, or e-mail us. We look forward to hearing from you.

Visit our website, or call us for the location of the nearest Automation Specialist in your area:

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version: 01/2021

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ARC series



- * Standard profile height bearing blocks
- * Standard and Flanged wide bearing blocks
- * Short, Standard, and Long length bearing blocks
- * 15, 20, 25, 30, 35, 45 and 55 mm rail sizes
- * Alloy steel bearing, rail, and balls
- * 4 rows of re-circulating balls
- * Equal loading in all directions
- * N, H, P, SP and UP accuracy grades
- * Light, Medium, and Heavy preload options
- * Low noise Ball Chain optional
- * Self lube reservoir optional

HRC series



- * Heavy / High profile height bearing blocks
- * Standard and Flanged wide bearing blocks
- * Standard, and Long length bearing blocks
- * 15, 20, 25, 30, 35, 45 and 55 mm rail sizes
- * Alloy steel bearing, rail, and balls
- * 4 rows of re-circulating balls
- * Equal loading in all directions
- * N, H, P, SP and UP accuracy grades
- * Light, Medium, and Heavy preload options
- * Low noise Ball Chain optional
- * Self lube reservoir optional

WRC series



- * Wide Rail linear guides
- * Standard and Flanged wide bearing blocks
- * Standard length bearing blocks
- * 21/15 and 27/20 mm rail sizes
- * Alloy steel bearing, rail, and balls
- * 4 rows of re-circulating balls
- * Equal loading in all directions
- * N, H, P, SP and UP accuracy grades
- * Light, Medium, and Heavy preload options
- * Low noise Ball Chain optional
- * Self lube reservoir optional



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Standard Positioning Components

ARR series



- * Standard profile height roller bearing blocks
- * Standard and Flanged wide roller bearing blocks
- * Standard, and Long length roller bearing blocks
- * 35 and 45 mm rail size
- * Alloy steel bearing, rail, and rollers
- * 4 rows of re-circulating rollers
- * Equal loading in all directions
- * H, P, SP and UP accuracy grades
- * Light, Medium, and Heavy preload options
- * Low noise Ball Chain optional

HRR series



- * High profile height roller bearing blocks
- * Standard and Flanged wide roller bearing blocks
- * Standard, Long and Extra Long length roller bearing blocks
- * 35 and 45 mm rail size
- * Alloy steel bearing, rail, and rollers
- * 4 rows of re-circulating rollers
- * Equal loading in all directions
- * H, P, SP and UP accuracy grades
- * Light, Medium, and Heavy preload options
- * Low noise Ball Chain optional

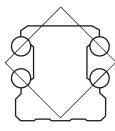
LRR series



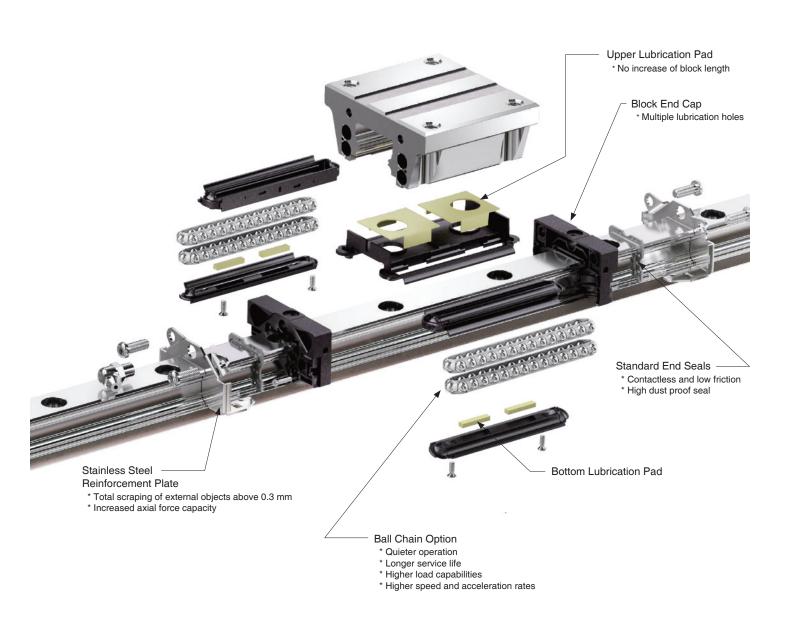
- * Low profile height roller bearing blocks
- * Standard and Flanged wide roller bearing blocks
- * Standard, Long and Extra Long length roller bearing blocks
- * 35 and 45 mm rail size
- * Alloy steel bearing, rail, and rollers
- * 4 rows of re-circulating rollers
- * Equal loading in all directions
- * H, P, SP and UP accuracy grades
- * Light, Medium, and Heavy preload options
- * Low noise Ball Chain optional

Product Characteristics

The ARC, HRC, and WRC linear guide series use the O-type arrangement for its four row ball circulation design. This 45 degree contact angle between the rail and the block's recirculating balls allow for a four directional load effect. Also, the use of larger ball diameter, and greater quantity of recirculating balls in our blocks, allows for a 10-30% greater load capacity than similarly sized competitor bearing block products. This and other characteristics are the source of our product's high load capacity, moment load ratings, and stiffness features.



O-type recirculating balls on rail arrangement



Lubrication

Lubrication

The recirculating balls in the block and the linear guide raceway will be separated at the contact zone by a micron-thick layer of oil. This lubrication reduces friction, helps prevent oxidation, reduces wear, dissipates heat, and increases overall service life. While every application is different, lubrication frequency should be based on load, acceleration, speed, and environment.

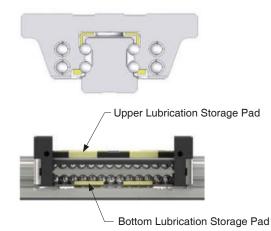
Multi-Directional (All-Direction) Lubrication Nozzles

The ARC, HRC, and WRC block features lubrication ports on the top, bottom, and sides, allowing for installation of optional grease nipples for relubrication. The top port comes standard with a O-ring to allow for easy relubrication. The internal comprehensive lubrication injection design allows for lubrication to both sides of the bearing block.



Block Lubrication Pad - Z Option

The inner **Z option** Lubrication Storage pad design does not increase the overall length of the bearing block and can effectively lubricate all the recirculating balls in the bearing block. Lubrication oil can be injected directly into any of the bearing block's ports to ensure a sufficient lubricant storage in the inner pads. This not only enables long term lubrication effects, but also a higher degree of ease at conforming to environment protection needs and lowering maintenance costs. For short stroke movements, this lubrication storage pad option allows for highly effective lubrication of the bearing block.



Block Seals

Block Seals

The ARC, HRC, and WRC block seals are comprised of a uniquly designed Inner seal, Bottom seal, and End seal design that is enhanced by the addition of a stainless steel reinforcment plate. This comprehensive sealing design significantly reduces re-lubrication needs and also prolongs the service life of the bearing block.

The **Inner Seals** protect the rail from external foreign particles and keep the lubrication inside the block, all while maintaining a low friction profile.

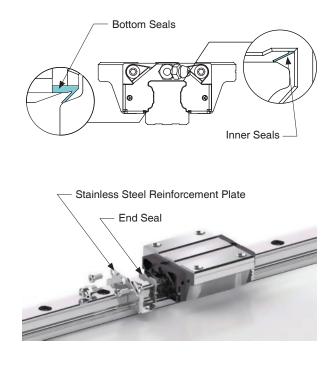
The **Bottom Seals** work in conjuction with the Inner seals by keeping foreign particles out of the recirculating balls in the block while keeping lubrication from leaking out of the block.

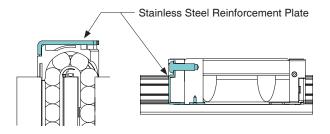
The **End Seals** also work in conjuction with the Inner and Bottom seals by keeping foreign particles out of the recirculating balls in the block while keeping lubrication from leaking out of the block. Our engineered plastic has a strong friction resistance and is less prone to cracking than typical NBR plastics.

The L type **Stainless Steel Reinforcement Plate** allows for screws to be fastened onto the top and bottom of the block, reinforcing the block end cap rigidity and therefore helping in the support of the thrust forces the recirculating balls produce in the block end caps. This design allows for higher linear speed and acceleration rates of the block versus other competitors. This reinforcement plate also functions as a scraper for larger particulates like iron filings, and has no more than 0.3 mm clearance between the plates and the rail.

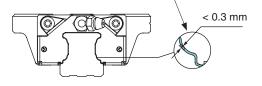
The **Standard Seals (S)** are in direct contact with the rail surface, giving them increased dustproof and lubrication retention capabilities. This class of seal is recommended for blocks that operate in environments high in foreign particles, such as sawdust, for long periods of time. The S-type seals will have a higher friction force than the B-type seals.

The **Low Friction Seals (B)** have a slight contact with the rail surface, and are suitable for most environments, with both a low friction force and scraper function.





Stainless Steel Reinforcement Plate -

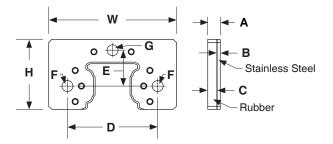


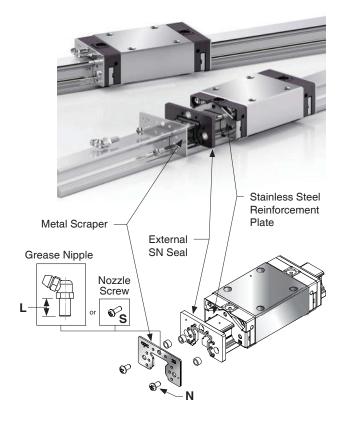
 $Maximum \ Velocity = 10 \ meters/sec \ (\ 39.4 \ feet/sec \)$ $Maximum \ Acceleration = 450 \ meters/sec^2 \ (\ 1,476 \ feet/sec^2 \)$

Block Seals

Block Seals

The (**SN**) **Metal Scraper Seals** provides an extra layer of protection to the internal recirculating balls of the bearing block. While this option does add to the overall length of a bearing block, its unique rubber seal and stainless steel scrapper, are ideal for applications in harsh environments. The SN seal option is a highly effective dust and iron scrap proofing solution for the grinding, glass processing, graphite processing and wood working machinery applications. The standard S seal option is also provided when the SN seal option is selected.





Model		Ex	t ernal I (mm)			Bore Specification (mm)			Screw Specification (mm)			
Number	Α	в	С	W	н	D	Е	F	G	N	S	L
15	4	1	3	33	20.3	25	10.2	3.5	3.5	M3 x 0.35	M3 x 0.5	9
20	4	1	3	41	22.5	29	11.5	3.5	3.5	M3 x 0.35	M3 x 0.5	9
25	5.2	1.2	4	47	26.5	36.5	13.5	3.5	6.5	M3 x 0.35	M6 x 0.75	12
30	6	1.5	4.5	58	34.2	42.5	17.5	4.5	6.5	M4 x 0.5	M6 x 0.75	12
35	6	1.5	4.5	68	39.3	50	20.5	4.5	10	M4 x 0.5	M6 x 0.75	12
45	6	1.5	4.5	84	49.6	65	24.9	4.5	6.5	M4 x 0.5	PT 1/8	15
55	6	1.5	4.5	98	57	73	28	5.5	6.5	M5 x 0.5	M6 x 0.75	12

ARC / HRC / WRC							
Model	Friction from Block Seal Versions (N)						
Number	В	S	SN				
15	2.0	3.5	7.5				
20	3.0	4.5	9.5				
25	4.0	5.5	13.5				
30	5.0	8.0	18.0				
35	6.0	11.0	23.0				
45	8.0	15.0	35.0				
55	10.0	18.0	48.0				

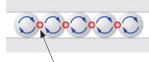
Ball Chain

Ball Chain - C option

The **Ball Chain (C)** option is a great solution for many linear guide applications. With traditional ball type linear guides, the ball-to-ball contact as the balls recirculate in the bearing block, leads to more friction, heat, and pressure which greatly reduces the service life of the bearing block.

The Ball Chain option provides a proprietory material between each reciruclating ball within the bearing block. This provides a greater contact area between the balls and the ball chain material, which prevents the ball-to-ball contact of the recirculating balls. This provides lower operational noise, less heat generation, and lower friction. The reduction of friction between the balls also allows for higher grease retention and lower dust generation. This all leads to a higher load capacity, higher linear speed, higher acceleration, less bearing noise, longer life, and long term maintenance free (lubrication free) operation, all within the same size bearing block as a non-ball chain block.

Traditional Ball Type Linear Guide



 The Ball-to-Ball contact creates friction, heat, and higher surface pressure

Ball Chain Linear Guide



 The Ball Chain material eliminates the Ball-to-Ball contact which provides less friction, less heat, less noise, and less surface pressure



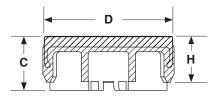
Mounting Hole Caps

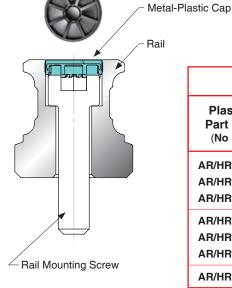
Caps for Rail Mounting Holes

The no cost **Plastic Cap** is a great way to cover the rail mounting holes after the rail has been securely mounted to the user base. These caps help prevent external debris from collecting in the rail mounting hole locations.

The extra cost **Metal-Plastic Cap** is a more durable design which covers the rail mounting holes after the rail has been securely mounted to the user base. Due to the difficulty of controlling hammering strength when installing a mounting hole cap, the cap is sometimes hammered too deep, which can lead to accumulation of dirt or scrap material. The Metal-Plastic cap is designed with a supporting block to prop up the cap, which helps prevent the unnecessary sinking of the cap during installation.







ARC & HRC									
Plastic Cap Part Number (No Charge)	Metal-Plastic Cap Part Number	Rail Size	Rail Mounting Screw	D (mm)	H (mm)	C (mm)			
AR/HR15-Rail Cap AR/HR20-Rail Cap AR/HR25-Rail Cap	AR/HR15-M-Rail Cap AR/HR20-M-Rail Cap AR/HR25-M-Rail Cap	15 20 25	M4 M5 M6	7.7 9.7 11.3	1.7 3.4 2.9	2.0 4.0 3.5			
AR/HR30-Rail Cap AR/HR35-Rail Cap AR/HR45-Rail Cap	AR/HR30-M-Rail Cap AR/HR35-M-Rail Cap AR/HR45-M-Rail Cap	30 35 45	M8 M8 M12	14.3 14.3 20.4	3.9 3.9 5.0	4.5 4.5 5.6			
AR/HR55-Rail Cap	AR/HR55-M-Rail Cap	55	M14	24.4	6.0	6.5			

WRC									
Plastic Cap Part Number (No Charge)	Metal-Plastic Cap Part Number	Rail Size	Rail Mounting Screw	D (mm)	H (mm)	C (mm)			
WRC21/15-Rail Cap WRC27/20-Rail Cap	WRC21/15-M-Rail Cap WRC27/20-M-Rail Cap	15 20	M4 M4	7.7 7.7	1.7 1.7	2.0 2.0			

ARR & HRR & LRR									
Plastic Cap Part Number (No Charge) Metal-Plastic Cap Part Number		Rail Size	Mounting		H (mm)	C (mm)			
ARR35-Rail Cap ARR45-Rail Cap	ARR35-M-Rail Cap ARR45-M-Rail Cap	35 45	M8 M12	14.3 20.4	8.0 5.0	9.5 5.6			

Load Mounting Screws

Block and Rail Mounting Screws

The maximum load capacity of a bearing block is not only related to the internal components of the block and rail, but also the mounting hardware used to mount the rail to a user base and the hardware used to mount the load to the bearing block. The minimum tightening torque for mounting the rail to a base and the block to the user load is in the chart.

Many linear guide applications without edge support for either the rail or bearing block experience lateral forces, pull off forces, or moment loads. In these situations, the strength of the rail and block mounting screws will determine the maximum possible load capacity of the linear guide system used.

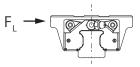
The charts below display the maximum forces allowed per rail size and block size with the use of different mounting screw tensile strengths.

When the external forces are greater than the ratings below, fixing elements should be used in the mounting procedures.

	A OF LORO	Load
Mounting –∕∕ Screws		Base

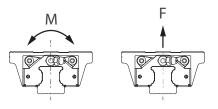
Strength Grade 12.9 Alloy	Mounting Screw Tightening Torque (Nm)					
Steel Screws	Steel	Cast Iron	Non-ferrous Metals			
МЗ	2.0	1.3	1.0			
M4	4.1	2.7	2.1			
M5	8.8	5.9	4.4			
M6	13.7	9.2	6.9			
M8	30.0	20.0	15.0			
M10	68.0	45.0	33.0			
M12	118.0	78.0	59.0			
M14	157.0	105.0	78.0			

	Mounting Screw Maximum Lateral Bearing Capacity									
	1	ARC & HRC & WR	С	ARR & HRR & LRR						
Model	Short Block	Standard Block	Long Block	Standard Block	Long Block					
Number	Number F _L F _L (N) (N)		F _L (N)	F _L (N)	F _L (N)					
15	240	280	320							
20	410	480	550							
25	610	710	810							
30	1200	1400	1600							
35		1400	1600	2800	3200					
45		3400	3900	6900	7900					
55		4800	5500							



Note: The values in this chart are for a class 8.8 alloy steel mounting screw. Using a 10.9 class alloy steel screw would make the values 1.4 times larger. Using a 12.9 class alloy steel screw would make the values 1.68 times larger.

	Mounting Screw Maximum Tensile Strength and Torque									
			ARC & HF	RC & WR	C		A	ARR & H	RR & LRF	1
Model	Short I	Block	Standard	d Block	Long I	Block	Standard	d Block	Long Block	
Number	F (N)	M (Nm)	F (N)	M (Nm)	F (N)	M (Nm)	F (N)	M (Nm)	F (N)	M (Nm)
15	3200	22	3700	26	4200	30				
20	5500	51	6400	60	7300	68				
25	8100	87	9400	100	10800	120				
30	15900	210	18500	240	21100	280				
35			18500	300	21100	340	36900	590	42200	680
45			45900	970	52400	1100	91700	1900	104800	2200
55			63700	1600	72800	1800				



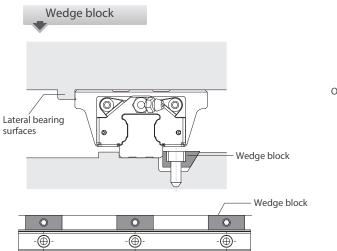
Note: The values in this chart are for a class 8.8 alloy steel mounting screw. Using a 10.9 class alloy steel screw would make the values 1.4 times larger. Using a 12.9 class alloy steel screw would make the values 1.68 times larger.

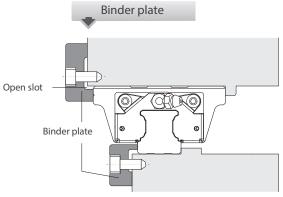


Bearing and Rail Fixing Elements

When the lateral user load is greater than the lateral load capacity provided using just bearing and rail mounting screws, additional fixing elements should be used.

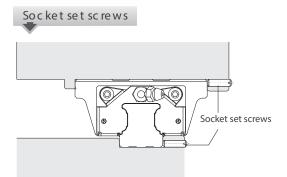
The following diagrams show several common elements and styles that can be used.





The open slot must be machined to prevent interference between the linear guide and carriage on the corners during installation.

The linear guide rail is tightened by locking the bolts on the wedge block.



When the installation space is limited, the size of lateral mounting element must be considered.

Mandrel fixing

Use the slope of the nut to advance the roller to achieve the effect of tightening the linear LM guide.

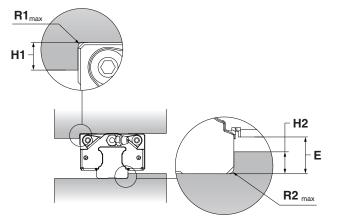
Reference Edge for Block and Rail

To ensure that a linear guide is precisely mounted to the user base and load, there is a chamfer located on every block and rail. The corner of the user load and base must be smaller than the chamfer of the linear guide components to avoid any interference.

		ARC	& HRC		
Rail Size	R1 _{max} (mm)	H1 (mm)	R2 _{max} (mm)	H2 (mm)	E (mm)
15	0.5	4.0	0.5	2.5	3.3
20	0.5	5.0	0.5	4.0	5.0
25	1.0	5.0	1.0	5.0	6.0
30	1.0	6.0	1.0	5.0	6.6
35	1.0	6.0	1.0	6.5	7.6
45	1.0	8.0	1.0	8.0	9.3
55	1.5	10.0	1.5	10.0	12.0

		v	/RC		
Rail	R1 _{max}	H1	R2 _{max}	H2	E
Size	(mm)	(mm)	(mm)	(mm)	(mm)
21/15	0.4	5.0	0.4	2.0	2.7
27/20	0.4	5.0	0.4	3.0	3.5

	ARR & HRR & LRR											
Rail	R1 _{max}	H1	R2 _{max}	H2	E							
Size	(mm)	(mm)	(mm)	(mm)	(mm)							
35	1.0	8.0	1.0	5.0	6.0							
45	1.0	10.0	0.5	7.0	8.0							



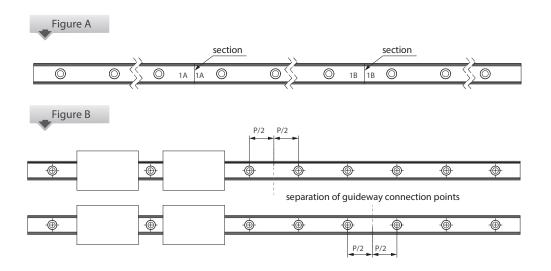


Rail Butt Joints

When an application calls for rail lengths longer than the standard maximum length for a given rail size, butt joining of 2 rails is the solution.

In a 1 rail application, butt joints will be labeled so that the rails can be properly mated during installation. See figure A below.

In a 2 rail application, in order to avoid accuracy effects as multiple blocks pass through a rail butt joint, the butt joints in the 2 rails should be spaced apart. See figure B below.



Preload	Definition		A							
Class	Definition	15	20	25	30	35	45	55	Application	
V0	Light Preload	+0 to -4	+0 to -5	+ 0 to - 6	+0 to -7	+0 to -8	+0 to -10	+0 to -12	precision applications smooth motion, low friction	
V1	Medium Preload	-4 to -10	-5 to -12	-6 to -15	-7 to -18	-8 to -20	-10 to -24	-12 to -28	precision motion, high stiffness, high load	
V2	Heavy Preload	-10 to -16	-12 to -18	-15 to -23	-18 to -27	-20 to -31	-24 to -36	-28 to -45	precision motion, super high stiffness, super high load	

Preload & Clearance - ARC

Preload & Clearance - HRC

Preload	Deficities		Clearance (µm)								
Class	Definition	15	20	25	30	35	45	55	Application		
V0	Light Preload	+0 to -4	+0 to -5	+ 0 to - 6	+0 to -7	+0 to -8	+0 to -10	+0 to -12	precision applications smooth motion, low friction		
V1	Medium Preload	-4 to -12	-5 to -14	-6 to -16	-7 to -19	-8 to -22	-10 to -25	-12 to -29	precision motion, high stiffness, high load		
V2	Heavy Preload	-12 to -19	-14 to -23	-16 to -26	-19 to -31	-22 to -35	-25 to -40	-29 to -46	precision motion, super high stiffness, super high load		

Preload & Clearance - WRC

Preload	Definition	Clearanc	e (µm)	Annlientien
Class	Definition	21/15	27/20	Application
V0	Light Preload	+0 to -4	+0 to -5	precision applications smooth motion, low friction
V1	Medium Preload	-4 to -10	-5 to -12	precision motion, high stiffness, high load
V2	Heavy Preload	-10 to -16	-12 to -18	precision motion, super high stiffness, super high load

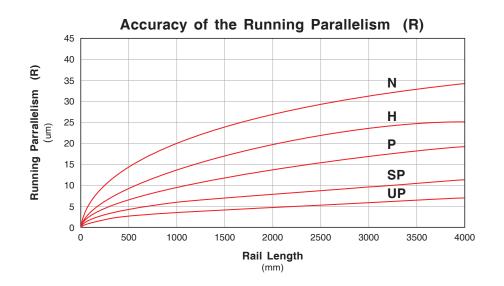
Preload & Clearance - ARR & HRR & LRR

Preload	Definition	Clearanc	e (µm)	Annlingtion
Class	Definition	35	45	Application
VO	Light Preload	-2 to -1	- 2 to -1	precision applications smooth motion, low friction
V1	Medium Preload	-3 to -2	-3 to -2	precision motion, high stiffness, high load
V2	Heavy Preload	-5 to -3	-5 to -3	precision motion, super high stiffness, super high load

4	RC / HRC	C / WRC	
Model	Frictio	on from P (N)	reload
Number	V0	V1	V2
15 MS/FS	0.60	0.80	1.00
15 MN/FN	0.65	0.85	1.10
15 ML/FL	0.70	0.90	1.40
20 MS/FS	0.70	1.10	1.40
20 MN/FN	0.75	1.40	1.60
20 ML/FL	0.80	1.60	1.80
25 MS/FS	0.90	1.20	1.80
25 MN/FN	0.95	1.60	1.95
25 ML/FL	1.20	1.80	2.00
30 MS/FS	1.00	1.80	2.30
30 MN/FN	1.10	2.00	2.50
30 ML/FL	1.40	2.20	2.80
35 MN/FN	1.25	2.50	3.25
35 ML/FL	1.60	2.70	3.50
45 MN/FN	2.10	2.80	4.00
45 ML/FL	2.30	3.50	4.55
55 MN/FN	4.10	5.50	7.95
55 ML/FL	4.30	6.60	8.60

Accuracy

		Ν (μm)	Η (μm)	Ρ (μm)	SP (μm)	UP (μm)	
Tolerance of Dimension Height T	т	+/- 80	+/- 40	+/- 20	+/- 10	+/- 5	
Variation of Heigth for a Different Block Loacted at the Same Position on the Rail	⊽ T	20	15	7	5	3	
Tolerance of Dimension Width W	w	+/- 40	+/- 20	+/- 10	+/- 7	+/- 5	R →
Variation of Width for a Different Block Loacted at the Same Position on the Rail	⊽W	30	15	7	5	3	R - see graph below for Accuracy of the Running Parallelism



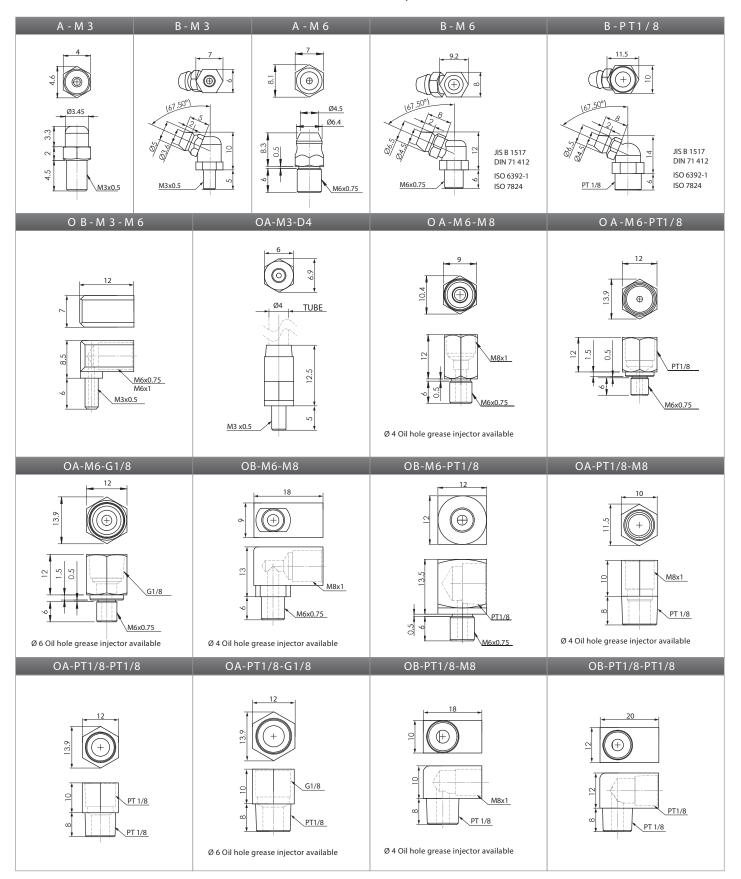
Application

Accuracy Grade	General Linear Motion Automation	Manufacturing Equipment	Precision Manufactring Equipment	Measuring Equipment
N	x	Х		
н	х	Х	X	
Р		Х	X	x
SP			X	x
UP				x
	Conveyance Systems General Automation Welding Machines Coating Machines Industrial Robots Injection Molding Office Machinery	Cartesian Coordinate Medical Equipment Injection Molding Linear Actuators Punching Press Woodworking	Semiconductor Machines Lathe, Milling, Grinding CNC Maching Center Boring, Drilling, EDM Linear Slides Laser Beam X-Y Table	Three Dimension Measuring Inspection Machines Dressing Machine Detection Mirror Wire Bonding Wire Cutting

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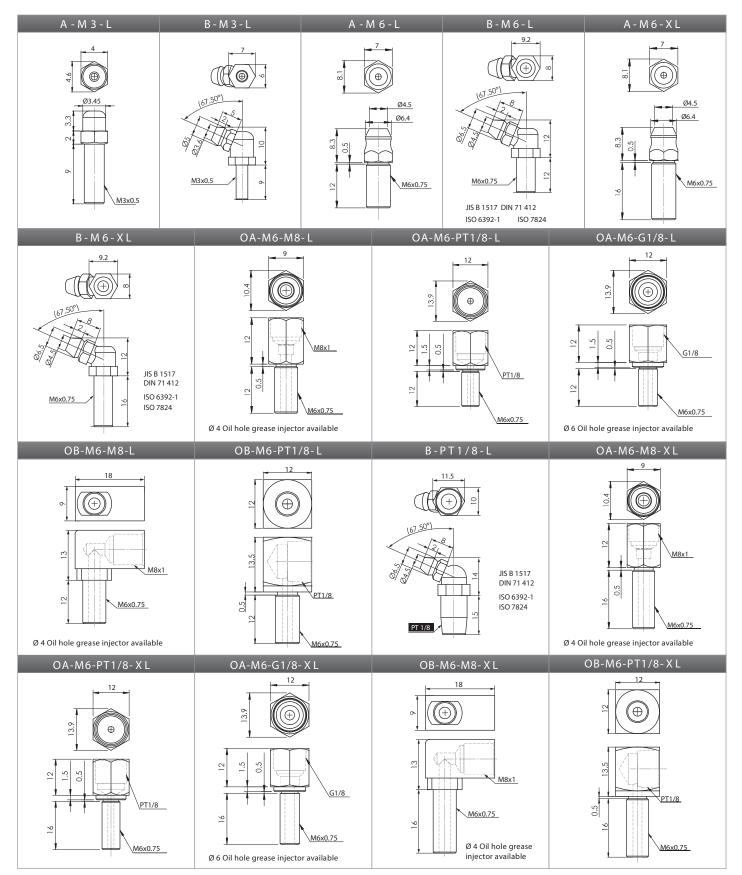
Grease Fitting / Oil Piping Joint

Most Common Options



Grease Fitting / Oil Piping Joint

Used with the SN Block Seal Option



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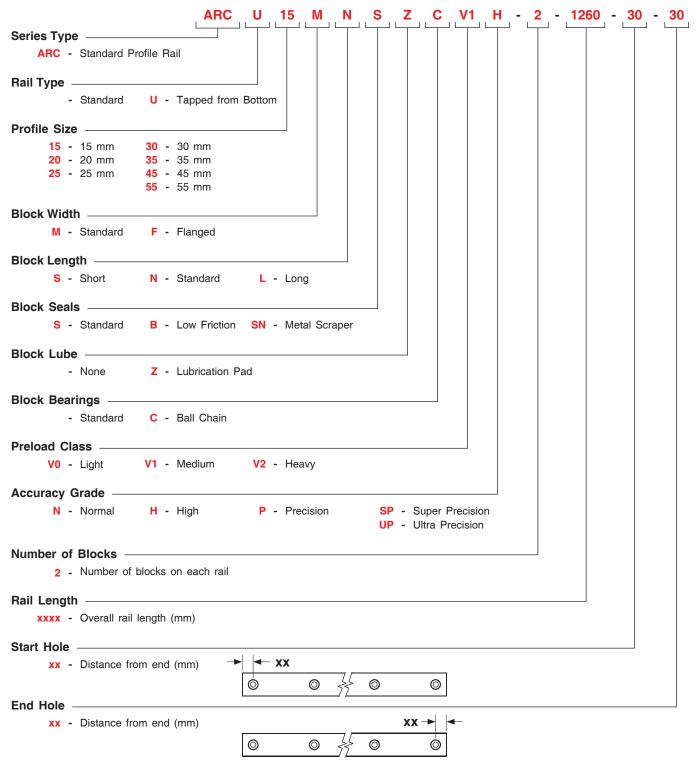
Ordering Guide

ARC Series



- * Standard Profile Height Bearing Blocks
- Alloy steel bearing, rail, and balls
- Equal loading in all directions
- * 4 rows of re-circulating balls
- * Short, standard & long block
- * Standard and flanged block * 5 Different accuracy ranges
- * 3 Different preload values

- * 3 Different block seal options
- * Any rail cut to specific length
- * Optional Tapped bottom rail
- * Optional Self lube reservoir
- * Optional Ball chain block
- * Optional Metal Scraper on block





ARC Series

Load Capacities - ARC series

	-	ic Load		Load		Sta	atic Mon	nent Loa	ds		
Model Number	Ċ	acity 50 50 km)	Ċ	acity 0 N)		/I_r Im)		lp m)		ly m)	·
	Standard	with Ball Chain	Standard	with Ball Chain	Standard	with Ball Chain	Standard	with	Standard	with Ball Chain	
ARC 15 MS ARC 15 FS	9.7	10.7	12.1	10.8	100	85	50	45	50	45	P
ARC 15 MN ARC 15 FN	12.5	14.9	17.5	16.2	140	130	105	95	105	95	
ARC 15 ML	16.9	19.6	26.9	24.3	215	195	235	215	235	215	
ARC 20 MS ARC 20 FS	15.7	16.9	19.3	17.1	205	185	100	85	100	85	
ARC 20 MN ARC 20 FN	21.5	25.6	30.0	25.7	325	275	230	200	230	200	
ARC 20 ML	25.7	34.1	38.5	34.3	415	370	390	350	390	350	
ARC 25 MS ARC 25 FS	22.9	24.1	27.3	24.3	350	310	160	145	160	145	
ARC 25 MN ARC 25 FN	31.2	36.2	42.5	36.4	540	465	385	340	385	340	
ARC 30 MS ARC 30 FS	29.3	28.7	33.1	28.9	520	455	230	205	230	205	
ARC 30 MN ARC 30 FN	41.3	49.4	53.7	49.6	845	780	565	530	565	530	
ARC 30 ML	49.9	65.8	70.2	66.1	1105	1040	950	900	950	900	
ARC 35 MN ARC 35 FN	57.8	69.9	82.9	70.2	1700	1575	1080	1010	1080	1010	
ARC 35 ML	68.9	94.4	106.5	94.7	2185	1940	1755	1575	1755	1575	
ARC 45 MN	89.8	102.5	122.1	102.8	3200	2955	1910	1775	1910	1775	
ARC 45 ML	112.8	159.4	169.1	159.7	4430	4185	3460	3280	3460	3280	
ARC 55 MN	161.3	N.A.	186.0	N.A.	4949	N.A.	3278	N.A.	3278	N.A.	
ARC 55 ML	185.2	N.A.	226.0	N.A.	6472	N.A.	5284	N.A.	5284	N.A.	

N.A. - Not Available

Model		Outlin (mm)				В		mensio m)	ns				F		imen (mm)	isions		ght
Number	Height H	Width W	Length	в	С	М×Т	к	G	N	J	Е	Р	x	Α	F	Q×R×S	Block (kg)	Rail (kg/m
RC 15 MS			41.2		-			26									0.11	
ARC 15 MM		34	55.5	26	26	M4 x 7	20.7	40.3	M3 × 6.5	4.5	5.3	15	9.5	15	60	4.5 x 7.5 x 5.3	0.16	1.2
ARC 15 ML			76.2		34			61									0.24	
RC 20 MS	;		49.2		-			32.2									0.17	
RC 20 MM	28	42	69	32	32	M5 x 7	23	52	M3 x 7.5	4	10	20	11	20	60	6 x 9.5 x 8.5	0.27	2.2
ARC 20 ML			87.2		45			70.2									0.33	
ARC 25 MS	33	48	57.4	35	-	M6 x 9	27	38.4	M6 x 7.5	5	12	23	12.5	22	60	7 x 11 x 9	0.30	3.0
ARC 25 MM	33	40	81.2	30	35	IVIO X 9	21	62.2	WIO x 7.5	5	12	20	12.0	20	00	7 X 11 X 9	0.42	3.0
ARC 30 MS			68		-			44									0.56	
ARC 30 MM	42	60	95.5	40	40	M8 x 12	35.2	71.5	M6 x 8.5	7.5	12	28	16	27	80	9 x 14 x 12	0.80	4.3
ARC 30 ML			118		60			94									1.14	
ARC 35 MN ARC 35 ML	18	70	111.2 136.6	50	50 72	M8 x 13	40.4	86.2 111.6	M6 x 10	8	12	34	18	32	80	9 x 14 x 12	1.12 1.54	6.7
ARC 45 MM	60	86	135.5	60	60	M10 x 17	50.7	102.5	PT1/8 x 12.5	44.4	14	45	20.5	39	105	14 x 20 x 17	2.12	10.5
ARC 45 ML	60	00	171.5	60	80	IVITUX 17	50.7	138.5	PTI/8 X 12.5	11.1	14	40	20.5	39	105	14 x 20 x 17	3.16	10.5
ARC 55 MN ARC 55 ML	70	100	168.5 202	75	75 95	M12 x 20	58	126.5 160	M6 x 10	13.5	12	53	23.5	45.7	120	16 x 24 x 20	4.20 5.08	14.
			N —		ŕŕ	0	0	-										
0	s shippe ot instal		• with			• M -		_	T		R → S			K	ŀ	• W		 \
block (r			e with 	J J J J J J J J		M -			↓				-	 	ŀ			- - -
block (r		led).	-	U → U → U → U → U → U → U → U → U → U →		M -			T		S	from	Botto	K V X		⊕ 		 I
block (r	ot instal	led).		↓ J ↓		M -			T		S Q →	from	Botto	K V X		⊕ 		
block (r	ot instal	F	-	U U U U U U U U U U U U U U U U U U U		M -			T		S Q →	from	Botto	K V X		⊕ 		 I
block (r	ail Size	F	D x Y M5 x 8	↓ J ↓ € ↓ ↓ ↓ ↓ (mm) P 15	A 15 20	M -			T		S Q →	from	Botto	K V X				
block (r	ail Size RCU 15 RCU 20	F	D x Y M5 x 8 M6 x 10	↓ J ↓ (mm) (mm) P 15 20	A 15 20	M -			T		S Q →	from	Botto	K V X				- -
block (r	ail Size RCU 15 RCU 20 RCU 25	F F N N N N	D x Y M5 x 8 16 x 10 16 x 12	↓ J ↓ (mm) (mm) P 15 20 23 28 34	A 15 20 23	M -			T		S Q →	from	Botto	K V X				

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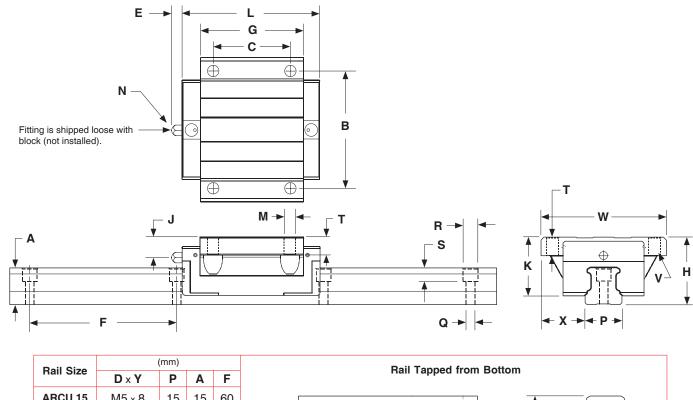
53 45.7 120

ARCU 55

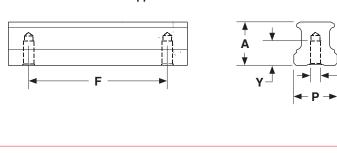
Specifications subject to change without notice

M14 x 24

Model		Outlin (mm)	-				Bloc	k Dim (mm)	ension	S				F		imen (mm)	sions	Wei	ight
Number	Height H	Width W	Length	в	с	M × T	v	к	G	N	J	Е	Р	x	Α	F	Q×R×S	Block (kg)	Rail (kg/m)
ARC 15 FS ARC 15 FN	24	52	41.2 55.5	41	- 26	M5 x 7	M4	20.7	26 40.3	M3 x 6.5	4.5	5.3	15	18.5	15	60	4.5 x 7.5 x 5.3	0.13 0.20	1.29
ARC 20 FS ARC 20 FN	28	59	49.2 69	49	- 32	M6 x 10	M5	23	32.2 52	M3 x 7.5	4	10	20	19.5	20	60	6 x 9.5 x 8.5	0.21 0.34	2.28
ARC 25 FS ARC 25 FN	33	73	57.4 81.2	60	- 35	M8 x 10	M6	27	38.4 62.2	M6 x 7.5	5	12	23	25	23	60	7 x 11 x 9	0.35 0.53	3.02
ARC 30 FS ARC 30 FN	42	90	68 95.5	72	- 40	M10 x 12	M8	35.2	44 71.5	M6 x 8.5	7.5	12	28	31	27	80	9 x 14 x 12	0.75 1.20	4.38
ARC 35 FN	48	100	111.2	82	50	M10 x 13	M8	40.4	86.2	M6 x 10	8	12	34	33	32	80	9 x 14 x 12	1.58	6.79



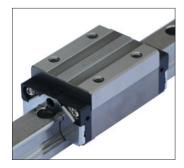
	DXI	г	A	Г
ARCU 15	M5 x 8	15	15	60
ARCU 20	M6 x 10	20	20	60
ARCU 25	M6 x 12	23	23	60
ARCU 30	M8 x 15	28	27	80
ARCU 35	M8 x 15	34	32	80
ARCU 45	M12 x 19	45	39	105
ARCU 55	M14 x 24	53	45.7	120



+ D

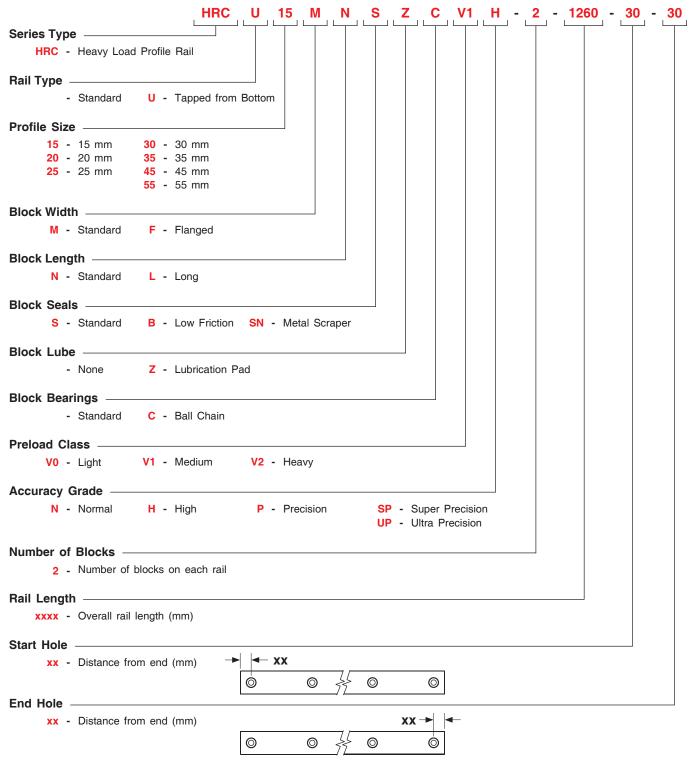
Ordering Guide

HRC Series



- * Heavy Load Profile Bearing Blocks
- * Alloy steel bearing, rail, and balls
- * Equal loading in all directions
- * 4 rows of re-circulating balls
- * Standard & long block
- * Standard and flanged block
- * 5 Different accuracy ranges
- * 3 Different preload values

- * 3 Different block seal options
- * Any rail cut to specific length
- * Optional Tapped bottom rail
- * Optional Self lube reservoir
- * Optional Ball chain block
- * Optional Metal Scraper on block

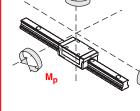




HRC Series

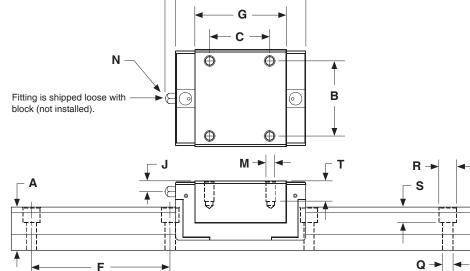
Load Capacities - HRC series

		ic Load		: Load		Sta	atic Mor	nent Loa	ds	
Model Number	Ċ	50 50 km)	Ċ	acity 20 :N)		/I_r m)		/i p Im)		ly m)
	Standard	with Ball Chain	م) Standard	with Ball Chain	, ,	with Ball Chain	Standard	with Ball Chain	Standard	with Ball Chain
HRC 15 MN HRC 15 FN	12.5	14.9	17.5	16.2	140	130	105	95	105	95
HRC 15 ML HRC 15 FL	16.9	19.6	26.9	24.3	215	195	235	215	235	215
HRC 20 MN HRC 20 FN	21.5	25.6	30.0	25.7	325	275	230	200	230	200
HRC 20 ML HRC 20 FL	25.7	34.1	38.5	34.3	415	370	390	350	390	350
HRC 25 MN HRC 25 FN	31.2	36.2	42.5	36.4	540	465	385	340	385	340
HRC 25 ML HRC 25 FL	38.7	50.4	57.7	51.6	735	655	710	640	710	640
HRC 30 MN HRC 30 FN	41.3	49.4	53.7	49.6	845	780	565	530	565	530
HRC 30 ML HRC 30 FL	49.9	65.8	70.2	66.1	1105	1040	950	900	950	900
HRC 35 MN HRC 35 FN	57.8	69.9	82.9	70.2	1700	1575	1080	1010	1080	1010
HRC 35 ML HRC 35 FL	68.9	94.4	106.5	94.7	2185	1940	1755	1575	1755	1575
HRC 45 MN HRC 45 FN	89.8	102.5	122.1	102.8	3200	2955	1910	1775	1910	1775
HRC 45 ML HRC 45 FL	112.8	159.4	169.1	159.7	4430	4185	3460	3280	3460	3280
HRC 55 MN HRC 55 FN	161.3	N.A.	186.0	N.A.	4949	N.A.	3278	N.A.	3278	N.A.
HRC 55 ML HRC 55 FL	185.2	N.A.	226.0	N.A.	6472	N.A.	5284	N.A.	5284	N.A.



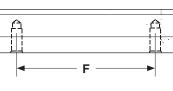
N.A. - Not Available

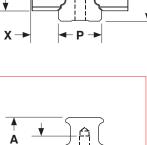
		Outlin (mm)	-			В		mensio	ns				F		imen (mm)	sions	Wei	ight
Model Number	Height H	Width W	Length	в	С	M × T	K	G	N	J	Е	Р	x	Α	F	Q×R×S	Block (kg)	Rail (kg/m)
HRC 15 MN HRC 15 ML	28	34	55.5 76.2	26	26 26	M4 x 7	24.7	40.3 61	M3 x 6.5	8.5	5.3	15	9.5	15	60	4.5 x 7.5 x 5.3	0.20 0.40	1.29
HRC 20 MN HRC 20 ML	30	44	69 87.2	32	36 50	M5 x 8.5	25	52 70.2	M3 x 7.5	6	10	20	12	20	60	6 x 9.5 x 8.5	0.32 0.40	2.28
HRC 25 MN HRC 25 ML	40	48	81.2 105	35	35 50	M6 x 9	34	62.2 86	M6 x 7.5	12	12	23	12.5	23	60	7 x 11 x 9	0.58 0.69	3.02
HRC 30 MN HRC 30 ML	45	60	95.5 118	40	40 60	M8 x 12	38.2	71.5 94	M6 x 8.5	10.5	12	28	16	27	80	9 x 14 x 12	0.90 1.15	4.38
HRC 35 MN HRC 35 ML	55	70	111.2 136.6	50	50 72	M8 x 13	47.4	86.2 111.6	M6 x 10	15	12	34	18	32	80	9 x 14 x 12	1.43 1.95	6.79
HRC 45 MN HRC 45 ML	70	86	135.5 171.5	60	60 80	M10 x 20	60.7	102.5 138.5	PT1/8 x 12.5	21.1	14	45	20.5	39	105	14 x 20 x 17	2.79 4.06	10.53
HRC 55 MN HRC 55 ML	80	100	168.5 202	75	75 95	M12 x 25	68	126.5 160	M6 x 10	23.5	12	53	23.5	45.7	120	16 x 24 x 20	5.11 6.24	14.0
			E	-	•	L - ← G -	>	•										



		(mm)		
Rail Size	D x Y	Р	Α	F
HRCU 15	M5 x 8	15	15	60
HRCU 20	M6 x 10	20	20	60
HRCU 25	M6 x 12	23	23	60
HRCU 30	M8 x 15	28	27	80
HRCU 35	M8 x 15	34	32	80
HRCU 45	M12 x 19	45	39	105
HRCU 55	M14 x 24	53	45.7	120







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1	Outlin (mm)	-				Bloc	k Dime (mm)	ensions	i				F		imen (mm)	sions	Wei	-
Height H	Width W	Length	в	С	M × T	v	к	G	Ν	J	Е	Р	x	Α	F	Q×R×S	Block (kg)	Rail (kg/m)
1 24	47	55.5 76.2	38	30	M5 x 7	M4	20.7	40.3 61	M3 x 6.5	4.5	5.3	15	16	15	60	4.5 x 7.5 x 5.3	0.19 0.29	1.29
1 30	63	69 87.2	53	40	M6 x 10	M5	25	52 70.2	M3 x 7.5	6	10	20	21.5	20	60	6 x 9.5 x 8.5	0.40 0.51	2.28
1 36 -	70	81.2 105	57	45	M8 x 10	M6	30	62.2 86	M6 x 7.5	8	12	23	23.5	23	60	7 x 11 x 9	0.63 0.87	3.02
42 -	90	95.5 118	72	52	M10 x 12	M8	35.2	71.5 94	M6 x 8.5	7.5	12	28	31	27	80	9 x 14 x 12	1.11 1.39	4.38
48 -	100	111.2 136.6	82	62	M10 x 13	M8	40.4	86.2 111.6	M6 x 10	8	12	34	33	32	80	9 x 14 x 12	1.55 2.00	6.79
i 60	120	135.5 171.5	100	80	M12 x 15	M10	50.7	102.5 138.5	PT1/8 x 12.5	11.1	14	45	37.5	39	105	14 x 20 x 17	2.75 4.28	10.53
1 70	140	168.5 202	116	95	M14 x 18	M12	58	126.5 160	M6 x 10	13.5	12	53	43.5	45.7	120	16 x 24 x 20	5.44 6.96	14.0
		N					► —											
is shippe not instal		N											←	K ↓		₩		H
	lled).		J J J J J J J J J J J J J J J J J J J						<u></u>		_ S			¥		₩		
not instal	e 5		e with	e with	e with	P = M $P = M$ $M =$	$ \begin{array}{c} & & & \\ & $	$\begin{array}{c c} N \\ e \text{ with } \\ \end{array} \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c c} & & & & \\ \hline \\ e & with \\ e & with \\ \hline \\ e & \\ \hline \\$	$\begin{array}{c c} & & & & \\ \hline \\ e \text{ with } & & \\ e \text{ with } & \\ \hline \\ e \text{ with } & \\ \hline \\$	$\begin{array}{c c} & & & & \\ \hline \\ e & with \\ e & with \\ \hline \\ e & \\ \hline \\ e & \\ \hline \\ e & \\ \hline \\$	$\begin{array}{c c} & & & & \\ \hline \\ e & with \\ e & with \\ \hline \\ e & \hline \\ e & \hline \\ \hline \\ e & \hline \\ \hline$	$\begin{array}{c c} & & & & \\ & & & \\ & & \\ e \text{ with } & & \\ & & \\ e \text{ with } & & \\ & &$	$\begin{array}{c c} & & & & \\ & & & \\ & & \\ e & with & & \\ & & \\ e & with & & \\ & &$	$\begin{array}{c c} & & & & \\ & &$	$\begin{array}{c c} & & & & \\ & & & \\ & & & \\ &$	$\begin{array}{c c} & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$

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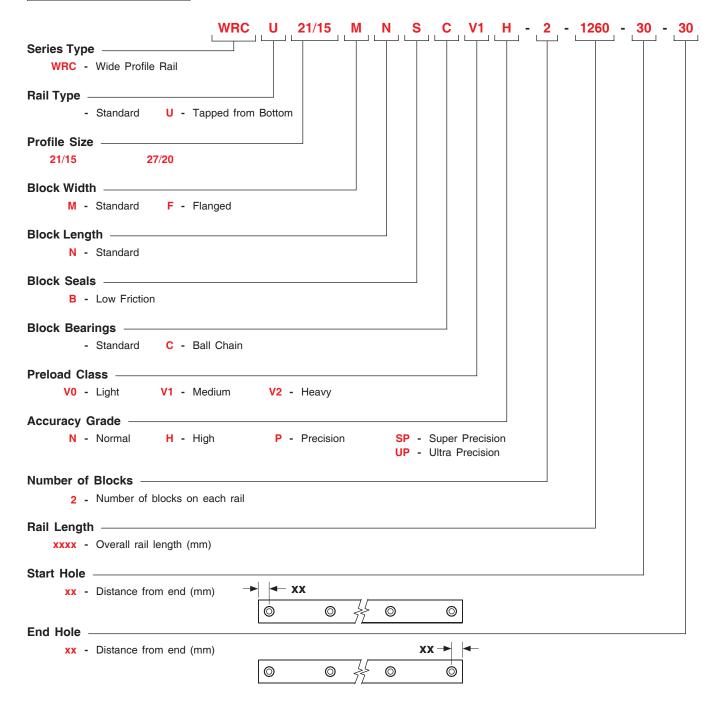
Ordering Guide

WRC Series



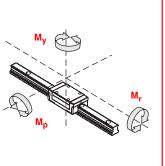
- * Wide Rail Profile Bearing Blocks
- Alloy steel bearing, rail, and balls
- Equal loading in all directions
- * 4 rows of re-circulating balls
- * Standard & long block
- * Standard and flanged block * 5 Different accuracy ranges
- * 3 Different preload values

- * 2 Different block seal options
- * Any rail cut to specific length
- * Optional Tapped bottom rail
- * Optional Ball chain block

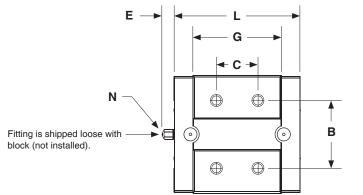


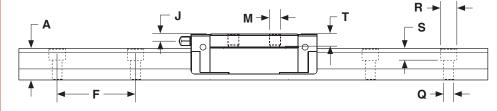
Load Capacities - WRC series

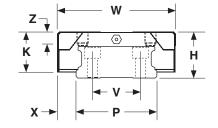
	Model C ₅₀			: Load acity		Sta	atic Mon	nent Loa	ds		
Model Number	Ċ	-	Ċ	0 N)		//_r Im)		lp m)		ly m)	Ň
	Standard	with Ball Chain	Standard	, with Ball Chain	Standard	with Ball Chain	Standard	with Ball Chain	Standard	with Ball Chain	
WRC 21/15 MN & FN	12.5	14.9	17.5	16.2	315	295	105	95	105	95	-D-
WRC 27/20 MN & FN	21.5	28.1	30.0	25.7	634	535	230	200	230	200	

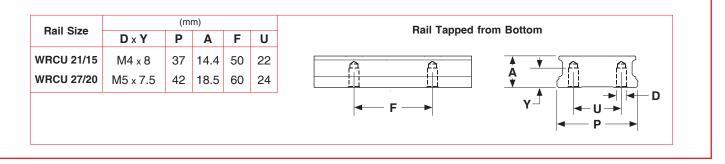


Medel		Outlin (mm)	-				Bloc	k Dime	nsi	ons					Ra	il Dim (mr		ons	Wei	ight
Model Number	Height H	Width W		в	с	M × T	к	G	z	N	J	Е	Р	v	x	A	F	Q×R×S	Block (kg)	Rail (kg/m)
WRC 21/15 MN	21	54	57.5	31	19	M5 x 5	18.3	40.3	6	M3 x 6.5	3.3	5.3	37	22	8.5	14.4	50	4.5 x 7.5 x 5.3	0.16	3.60
WRC 27/20 MN	27	62	70	46	32	M6 × 6	23.5	52	10	M3 x 7.5	4.5	5.3	42	24	10	18.5	60	4.5 x 7.5 x 5.3	0.32	5.26









Model		u tline mm)					Bloc	k Dime	ensi	ons					Ra	i il Din (m		ions	Wei	-
Number	Height Wi	dth Le	ngth L	в	с	M × T	к	G	z	N	J	Е	Р	v	х	A	F	Q×R×S	Block (kg)	Rail (kg/m
VRC 21/15 FN	21 6	8 5	7.5	60	29	M5 x 7	18.3	40.3	7	M3 × 6.5	3.3	3.5	37	22	15.5	14.4	50	4.5 x 7.5 x 5.3	0.20	3.60
VRC 27/20 FN	27 8	80 7	70	70	40	M6 x 9	23.5	52	9	M3 x 7.5	4.5	3.5	42	24	19	18.5	60	4.5 x 7.5 x 5.3	0.55	5.20
	shipped lo ot installed						C —			B/2	3	Π.								
	F						M →			- T	•	R → - S Q →			_	Z - ↓ K ↓ ↓				►] H
	✓ F				(mm					<u> </u>	•	- S Q →		ped 1		▲ _ [K _ ▲ [↓				_

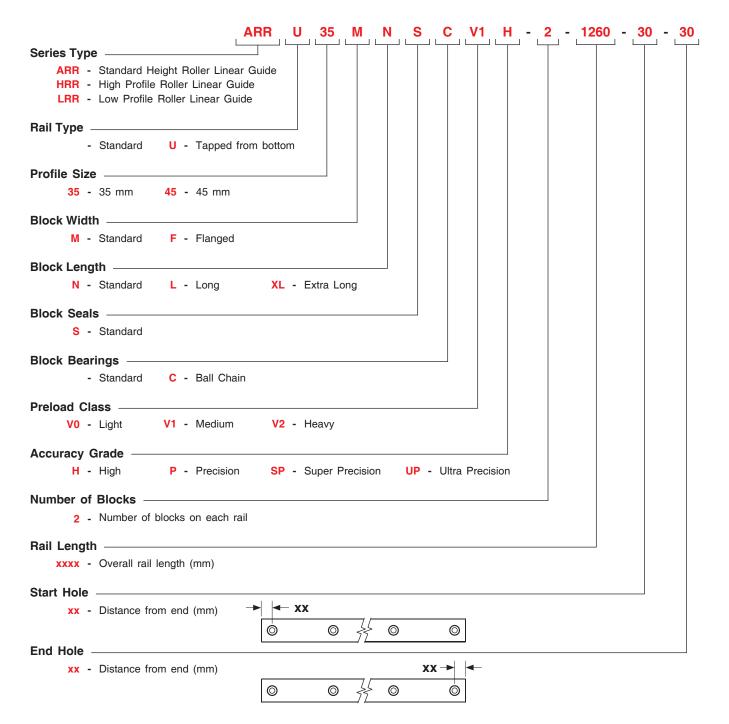
Ordering Guide

ARR & HRR & LRR Series



- * Wide Rail Profile Bearing Blocks
- * Alloy steel bearing, rail, and balls
- Equal loading in all directions
- * 4 rows of re-circulating balls
- * Standard, long & extra long block
- * Standard and flanged block
- * 4 Different accuracy ranges
- * 3 Different preload values

- * Standard seal option
- * Any rail cut to specific length
- * Optional Tapped bottom rail
- * Optional Ball chain block





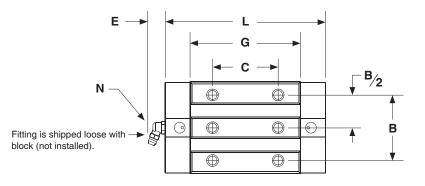
Load Capacities - ARR & HRR & LRR series

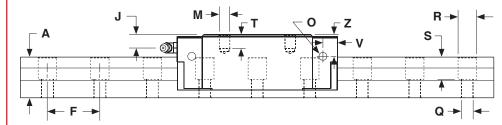
		ic Load acity		Load acity		Sta	atic Mor	nent Loa	ds		
Model Number	Ċ	50	Ċ	0		۸ _r		/Ip		Л _У	My
	(kN @	50 km) _{with}	(k	N) with	(N	m) _{with}	٩)	lm) _{with}	٩)	lm) _{with}	
	Standard	Ball Chain	Standard	Ball Chain	Standard	Ball Chain	Standard	Ball Chain	Standard	Ball Chain	
ARR 35 MN HRR 35 MN LRR 35 MN HRR 35 FN LRR 35 FN	71.8	89.8	154	133	2742	2350	1946	1710	1946	1710	M _p
ARR 35 ML HRR 35 ML LRR 35 ML HRR 35 FL LRR 35 FL	86.6	108.4	196	175	3525	3133	3226	2881	3226	2881	
HRR 35 MXL LRR 35 MXL HRR 35 FXL LRR 35 FXL	103.3	129.1	245	224	4439	4047	5111	4695	5111	4695	
ARR 45 MN HRR 45 MN LRR 45 MN HRR 45 FN LRR 45 FN	120.8	151.2	255	222	6350	5750	4450	4050	4450	4050	
ARR 45 ML HRR 45 ML LRR 45 ML HRR 45 FL LRR 45 FL	148.6	185.8	333	288	8450	7550	7700	6900	7700	6900	
HRR 45 MXL LRR 45 MXL HRR 45 FXL LRR 45 FXL	173.9	217.3	410	366	10500	9650	11800	10850	11800	10850	

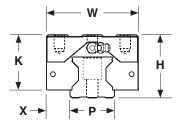
ARR Series

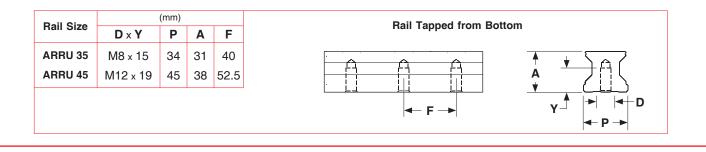
Dimensions & Specifications

Model		Outlin (mm)	-					Block	Dimensio (mm)	ns						Ra		imen (mm)	sions	<u> </u>	ight
Number	Height H	Width W	Length L	в	с	М×Т	к	G	Ν	J	Е	0	z	v	Р	x	A	F	Q x R x S	Block (kg)	Rail (kg/m)
ARR 35 MN ARR 35 ML	48	70	122 147.5	50	50 72	M8 x 13	42	84 109.5	M6 x 12	10	12	M6 x 8	16.4	11	34	18	31	40	9 x 14 x 17	1.20 1.75	5.74
ARR 45 MN ARR 45 ML	60	86	156 191	60	60 80	M10 x 17	52	110 145	M6 x 12	14.6	12	M6 x 8	21.8	11	45	20.5	38	52.5	14 x 20 x 17	2.60 3.35	10.0



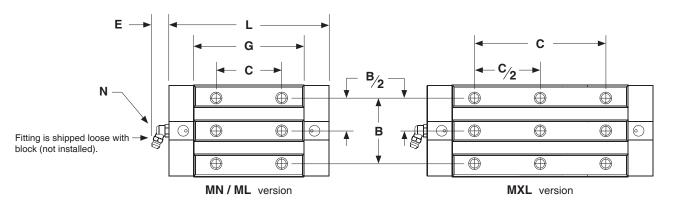


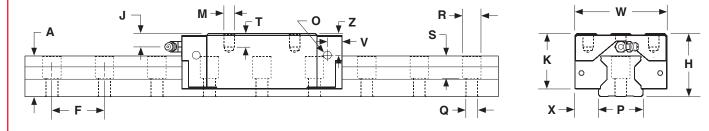


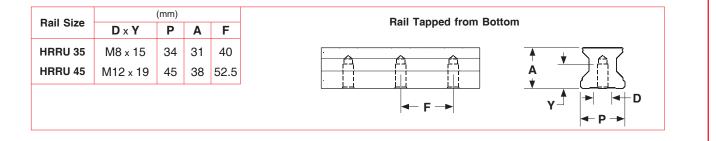




Model		Outlin (mm)	-					Block	Dimensio	ns						Ra		imen (mm)	sions	Wei	ight
	Height H	. ,		в	с	M × T	к	G	N	J	Е	0	z	v	Р	x	Α	F	Q×R×S	Block (kg)	Rail (kg/m)
HRR 35 MN HRR 35 ML	55	70	122 147.5	50	50 72	M8 x 16	49	84 109.5	M6 x 12	17	12	M6 x 8	23.4	11	34	18	31	40	9 x 14 x 17	1.72 2.1	5.74
HRR 35 MXL		_	177.5		100			139.5								-				2.7	
HRR 45 MN HRR 45 ML HRR 45 MXL	70	86	156 191 226	60	60 80 120	M10 x 20	62	110 145 180	M6 x 12	24.6	12	M6 x 8	31.8	11	45	20.5	38	52.5	14 x 20 x 17	3.4 4.3 5.2	10.0

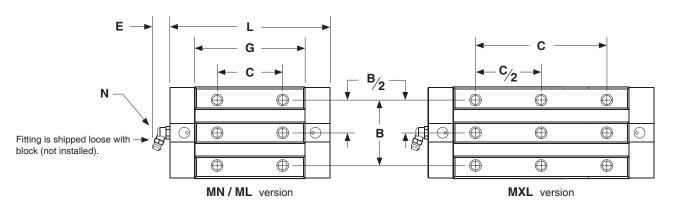


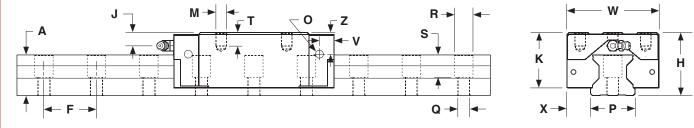


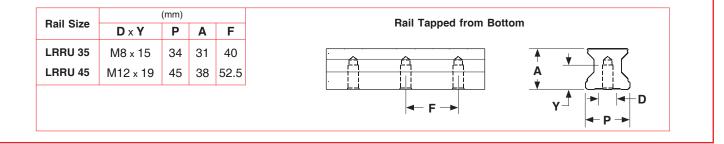


Model (mm)					Block Dimensions (mm) (mm)													;					
Number	Height H	Width W	Length	в	с	U	М×Т	$\mathbf{M}_1 \times \mathbf{T}_1$	к	G	Ν		J	Е	0	z	v	Р	x	A	F	Q x	R x S
HRR 35 FN HRR 35 FL HRR 35 FXL	48	100	122 147.5 177.5		52 52 100	62	M8 x 13	M10 x 13	42	84 109.5 139.5	M6 x 1	2	10	12	M6 x 8	16.4	11	34	33	31	40	9 x 1	4 x 17
HRR 45 FN HRR 45 FL HRR 45 FXL	60	120	156 191 226		60 60 120	80	M10 x 15	M12 x 15	52	110 145 180	M6 x 1	2	14.6	12	M6 x 8	21.8	11	45	37.5	38	52.5	14 x 2	20 x 17
		E	≣ →		I		— L –		•			N HR HR	Mode lumb R 35 R 35 R 35	er FN	(kg) 1.7 2.4	ght Rail (kg/m) 5.74	-			45 F	r N L	We Block (kg) 3.6 4.7 5.75	ight Rail (kg/m) 10.0
N Fitting is shipped loose with Fitting is shipped loose with																							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$																							
HF	nil Sizo RRU 3 RRU 4	5 1	D × Y //8 × 15 112 × 19	3		A 31 38	F 40 52.5					· · · · · ·	F —		om Botto	m ▲ ↓	Y	↓		') - D		

Model		Outlin (mm)	-	Block Dimensions												Ra	Weight				
	Height H	、 ,		в	с	M × T	к	G	N	J	Е	0	z	v	Р	x	Α	(mm) F	Q×R×S	Block (kg)	Rail (kg/m)
LRR 35 MN			122		50			84												1.1	
LRR 35 ML LRR 35 MXL	44	70	147.5 177.5	50	72 100	M8 x 9	38	109.5 139.5	M6 x 12	6	12	M6 x 8	12.4	11	34	18	31	40	9 x 14 x 17	1.5 1.9	5.74
LRR 45 MN			156		60			110												2.1	
LRR 45 ML LRR 45 MXL	52	86	191 226	60	80 120	M10 x 11	44	145 180	M6 x 12	6.6	12	M6 x 8	13.8	11	45	20.5	38	52.5	14 x 20 x 17	2.7 3.2	10.0









Model													R		imer (mm)	nsions	;					
Number	Height H	Width W	Length	в	с	U	М×Т	$\mathbf{M}_1 \times \mathbf{T}_1$	к	G	Ν	J	E	ο	z	v	Р	x	Α	F	Q x	R x S
LRR 35 FN LRR 35 FL LRR 35 FXL	44	100	122 147.5 177.5				M8 x 9	M10 x 13	38	84 109.5 139.5	M6 x 12	26	6 12	M6 × 8	12.4	11	34	33	31	40	9 x 1	4 x 17
LRR 45 FN LRR 45 FL LRR 45 FXL	52	120	156 191 226				M10 x 10	M12 x 15	44	110 145 180	M6 x 12	2 6.	6 12	M6 x 8	13.8	11	45	37.5	38	52.5	14 x 2	20 x 17
												Nu	odel nber	(kg)	-)		Nu	odel mbe	r	Block (kg)	ight Rail (kg/m)
		E	≣ →		• •	•	— L - — G -	•	•		ι	RR	35 FN 35 FL 35 FXI		5.74			LRR LRR LRR	45 F	L	2.9 3.8 4.5	10.0
$\begin{array}{c} & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$																						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$																						
LR	NII Siza NRU 3 NRU 4	5 1	D x Y VI8 x 15 112 x 19		im) P 34 45	A 31 38	F 40 52.5					Tap		om Botto	om A V	Y	_ ↓			} + D		

Unit Conversions

Torque Conversions

Present Units	Convert To	Multiply By
Gram-centimeters	newton-meters	0.0000981
Gram-centimeters	ounce-inches	0.0138874
Gram-centimeters	pound-inches	0.000868
Gram-centimeters	pound-feet	0.0000723
Newton-meters	gram-centimeters	10,197.162
Newton-meters	ounce-inches	141.612
Newton-meters	pound-inches	8.85
Newton-meters	pound-feet	0.73756
Ounce-inches	gram-centimeters	72.0077
Ounce-inches	newton-meters	0.007062
Ounce-inches	pound-inches	0.0625
Ounce-inches	pound-feet	0.005208
Pound-inches	gram-centimeters	1,152.0
Pound-inches	newton-meters	0.11299
Pound-inches	ounce-inches	16.0
Pound-inches	pound-feet	0.08333
Pound-feet	gram-centimeters	13,825.5
Pound-feet	newton-meters	1.3558
Pound-feet	ounce-inches	192.0
Pound-feet	pound-inches	12.0

Distance Conversions

Present Units	Convert To	Multiply By
Arc-minutes	degrees	0.016666
Arc-seconds	degrees	0.000277
Centimeters	inches	0.3937
Centimeters	feet	0.03280
Centimeters	microns	10,000.0
Degrees	arc-minutes	60.0
Degrees	arc-seconds	3,600.0
Degrees	radians	0.017453
Feet	centimeters	30.48
Feet	meters	0.3048
Inches	centimeters	2.54
Inches	Km	0.0000254
Inches	meters	0.0254
Inches	microns	25,400.0
Inches	millimeters	25.4
Km	inches	39,370.0
Meters	feet	3.2808
Meters	inches	39.37
Meters	microns 1	,000,000.0
Microns	centimeters	0.0001
Microns	inches	0.00003937
Microns	meters	0.000001
Microns	millimeters	0.001
Millimeters	inches	0.03937
Millimeters	microns	1,000.0
Radians	degrees	57.295779

Inertia Conversions Present Units Convert To Multiply By Gram-cm² ounce-inches2 0.00546745 Gram-cm² ounce-inch-sec² ... 0.000014161 Gram-cm² pound-inches² 0.000341716 Gram-cm² pound-inch-sec² ... 0.00000885 Gram-cm² pound-feet-sec² 0.00000074 ... Ounce-inches² gram-cm² 182.901 Ounce-inches² ounce-inch-sec² 0.00259008 ... Ounce-inches² pound-inches² 0.0625 Ounce-inches² pound-inch-sec² 0.00016188 ... Ounce-inches² pound-feet-sec² ... 0.00001349 Ounce-inch-sec² gram-cm² 70,615.4 Ounce-inch-sec² ounce-inches² 386.0 Ounce-inch-sec² pound-inches² 24.13045 Ounce-inch-sec² pound-inch-sec² 0.0625 ... Ounce-inch-sec² pound-feet-sec² 0.00520833 ... Pound-inches² gram-cm² 2,926.41 Pound-inches² ounce-inches² 16.0 Pound-inches² ounce-inch-sec² ... 0.0414413 Pound-inches² pound-inch-sec² 0.00259008 ... Pound-inches² pound-feet-sec² 0.00021584 ... Pound-inch-sec² gram-cm² 1,129,850.0 Pound-inch-sec² ounce-inches² 6,177.4 Pound-inch-sec² ounce-inch-sec² ... 16.0 Pound-inch-sec² 386.0 pound-inches² Pound-inch-sec² pound-feet-sec² ... 0.0833333 Pound-feet-sec² gram-cm² 13,558,200.0 Pound-feet-sec² ounce-inches2 74,128.9 Pound-feet-sec² ounce-inch-sec² ... 192.0 Pound-feet-sec² pound-inches² 4,633.06 Pound-feet-sec² pound-inch-sec² ... 12.0

Load Conversions

Present Units	Convert To	Multiply By
Grams	newtons	0.009806
Grams	ounces	0.03528
Grams	pounds	0.002204
Kilograms	pounds	2.2046
Newtons	grams	101.971
Newtons	ounces	3.59692
Newtons	pounds	0.224808
Ounces	grams	28.3495
Ounces	newtons	0.27802
Ounces	pounds	0.0625
Pounds	grams	453.592
Pounds	kilograms	0.45359
Pounds	newtons	4.44824
Pounds	ounces	16.0
Pounds	tons	0.0005
Tons	pounds	2,000.0

Reference : Handbook of Tables for Applied Engineering Science





Terms of Sale

To Order

Any standard, or custom, product from LinTECH may be ordered by mail, email, on-line, phone, or fax from an Automation Specialist in your area. To obtain the name of your local Automation Specialist call:

LINTECH[®]

	1845 Enterprise Way
	Monrovia, CA 91016
Toll Free:	(800) 435 - 7494
Phone:	(626) 358 - 0110
Fax:	(626) 303 - 2035

Web Site: E-Mail: www.LintechMotion.com Lintech@LintechMotion.com

All required options should be reviewed using the part numbering guide for each model series. Your local Automation Specialist or factory personnel can assist you with any questions you may have.

Delivery

All shipping promises are made in good faith. Any shipping dates appearing on acknowledgments of orders or given to a customer in any other manner are approximate. Where the customer delays in supplying information necessary to proceeding with an order, the date of shipment may be extended accordingly. Standard products from LINTECH are usually available for delivery within 1 to 6 weeks of receipt of a purchase order. However, component shortages, labor disputes, or any other unforeseen circumstance may delay the delivery of an order. LINTECH shall not be held liable under any circumstance. All products are shipped F.O.B. Monrovia, CA. LINTECH packages all standard and custom products carefully. However, LINTECH is not liable for damage incurred during shipment. Contact the carrier immediately if damage to a package or shipment is noticed upon receipt of such shipment.

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Unless otherwise specified, payment shall be made by C.O.D, credit card (AMEX, Visa, or Master Card), or net thirty (30) days (pending credit approval) from date of shipment of the items purchased hereunder in U.S. currency. LINTECH reserves the right to require deposit payments on non-standard items, customs, or product built to Buyer's designs or specifications. Amounts not timely paid shall bear interest at the rate of 1.5% for each month or a portion thereof that Buyer is late in making payments. No responsibility is assumed by LINTECH for damages arising from delivery delays, fires, strikes, material shortages, accidents, or any other cause whatsoever, and purchase orders are accepted subject only to these conditions irrespective of statements or stipulations on purchase orders.

Minimum Order Amount

 $\ensuremath{\textit{LINTECH}}$ requires a minimum of \$30 List Price U.S. currency on all orders.

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Returns

Any product requiring a return to LinTECH (for warranty or non-warranty repair) requires pre-approval from the factory prior to shipment. Contact the customer service department at (800) 435-7494 in order to obtain a RMA (Return Materials Authorization) number. At that time, please have your system Model & Serial numbers available, along with the reason for the return. The RMA number should be clearly marked on the returned package label and your packing list, or shipping document. Return product freight prepaid in its original package or one with comparable protection. LinTECH will not accept return shipments sent freight collect. Product damage incurred during return shipment, from poor packaging, will not be warranted by LinTECH. Keeping original packing materials is recommended until initial inspection and testing is completed.

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Published dimensions shown in LINTECH catalogs are known to be accurate at time of printing. LINTECH shall not be held liable, under any circumstances, for any wrongly documented dimension or specification. Changes in design are made whenever LINTECHbelieves its products will improve by the change. No obligation to incorporate these changes in units manufactured prior to a change will be assumed.

Cancellations

All items entered for production and on which a cancellation is requested shall be paid for on the basis of actual cost of labor, materials, and supplies applied to the production of such items plus proper overhead expenses determined in accordance with good accounting practice, plus 25% of the total of such cost and expenses; provided that such cost and expense plus 25% shall in no case exceed 100% of the quoted price of original order. Upon cancellation, *LINTECH* may dispose of materials used in the manufacture of cancelled order as it sees fit.



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For over 50 years, *LINTECH*[®] has designed and manufactured numerous standard and custom mechanical motion control products that are used in a wide range of applications and markets. This document highlights cut to length round rail precision shafting, round rail linear bearings (with or without pillow blocks), steel & aluminum shaft supports, shaft assemblies (single & *TWINRAIL*[®]), *TWINRAIL*[®] carriage assemblies, profile rail linear guides, rolled & ground ball screw assemblies, acme & ball screw driven actuators, belt driven slides, worm gear driven rotary tables, and a wide range of custom positioning assemblies.



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