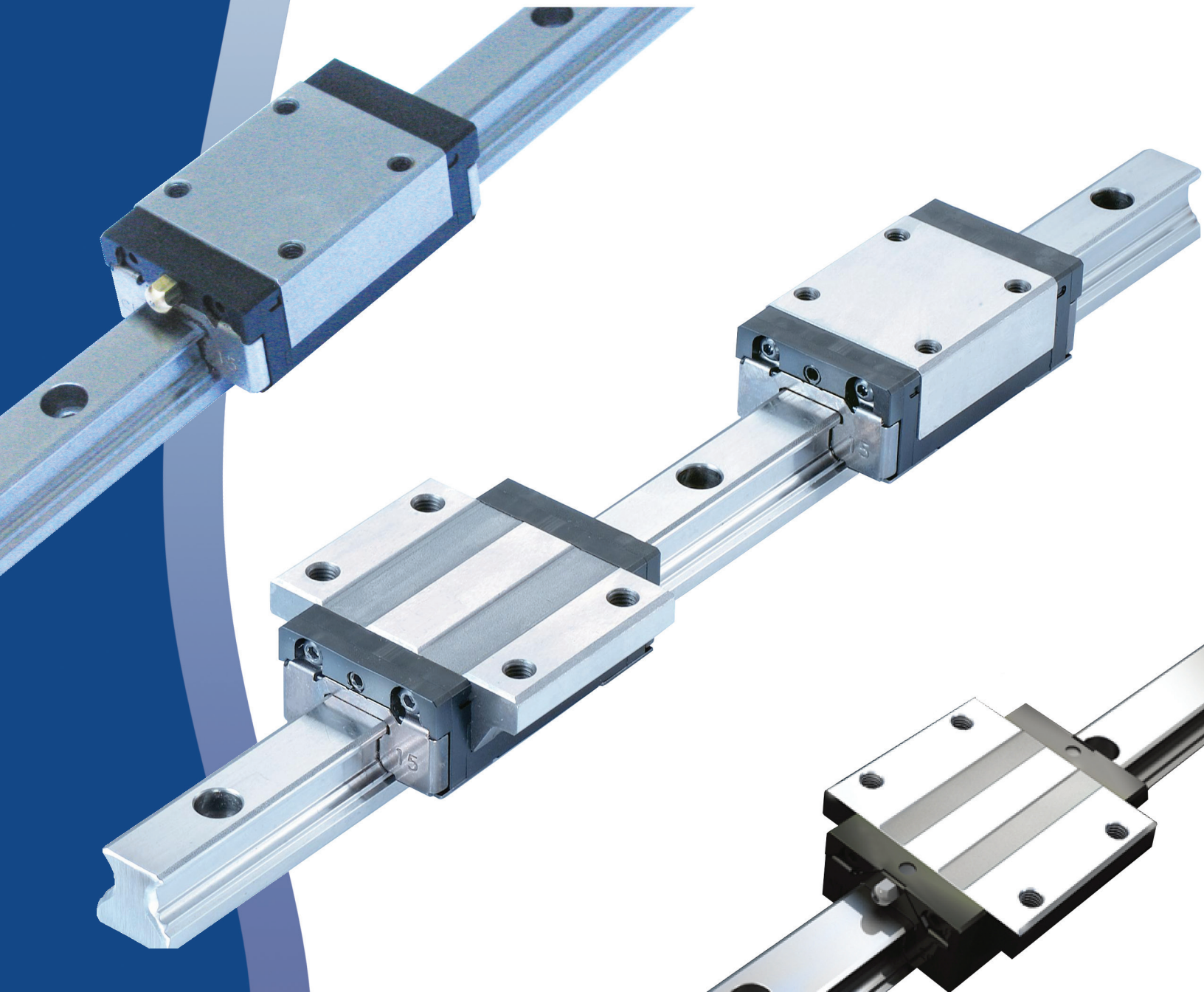


LINTECH[®]

***Profile Rail
Linear Guides***



Welcome to *LINTECH*®



For over 48 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:

LINTECH®

1845 Enterprise Way
Monrovia, CA. 91016

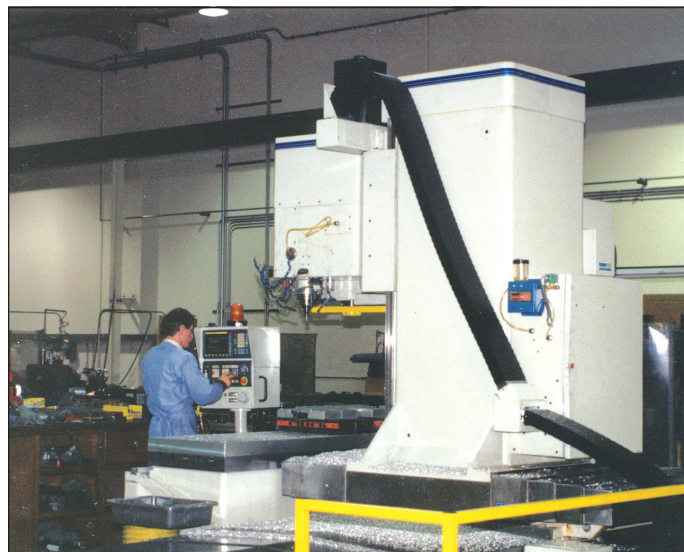
Toll Free: (800) 435 - 7494

Phone: (626) 358 - 0110

Fax: (626) 303 - 2035

Web Site: www.LintechMotion.com

E-Mail: Lintech@LintechMotion.com

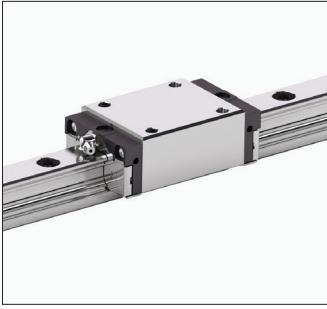


version: 12/2019

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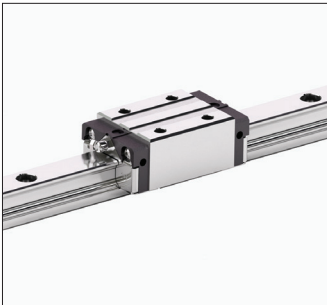
	Pages
Technical Reference	2 to 5
ARC series	6 to 9
HRC series	10 to 13
WRC series	14 to 17
ARR & HRR & LRR series	18 to 25

ARC series



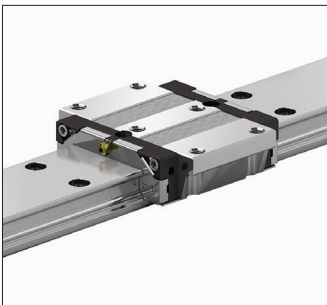
- * Standard profile height bearing blocks
- * Standard and Flanged wide bearing blocks
- * Short, Standard, and Long length bearing blocks
- * 15, 20, 25, 30, 35, 45 mm rail sizes
- * Alloy steel bearing, rail, and balls
- * 4 rows of re-circulating balls
- * Equal loading in all directions
- * Normal,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

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
- * High and Precision 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, 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
- * High and Precision 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, 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
- * High and Precision accuracy grades
- * Light, Medium, and Heavy preload options
- * Low noise Ball Chain *optional*

Preload & Clearance - **ARC**

Preload 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 - **HRC**

Preload 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 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

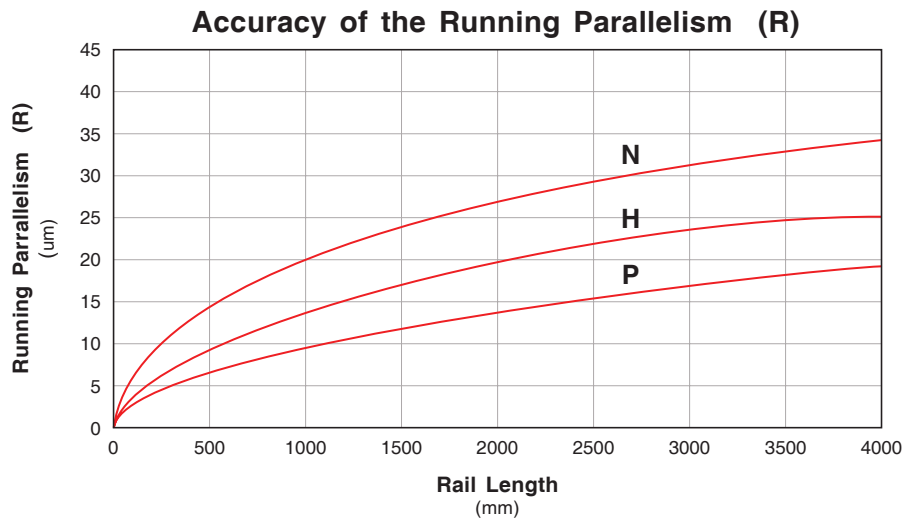
Preload & Clearance - **ARR** & **HRR** & **LRR**

Preload Class	Definition	35	45	Application
V0	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

Accuracy

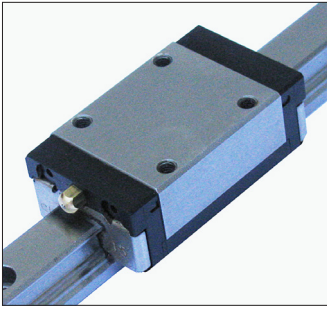
		N (μm)	H (μm)	P (μm)
Tolerance of Dimension Height T	T	+/- 100	+/- 40	+/- 20
Variation of Height for a Different Block Located at the Same Position on the Rail	∇ T	30	15	7
Tolerance of Dimension Width W	W	+/- 40	+/- 20	+/- 10
Variation of Width for a Different Block Located at the Same Position on the Rail	∇ W	30	15	7

R - see graph below for Accuracy of the Running Parallelism



Application

Accuracy Grade	General Linear Motion Automation	Manufacturing Equipment	Precision Manufacturing Equipment	Measuring Equipment
N	X	X		
H	X	X	X	
P		X	X	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



- * 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
 - * 3 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 U 15 M N S Z C V1 H - 2 - 1260 - 30 - 30

Series Type _____
ARC - Standard Profile Rail

Rail Type _____
 - Standard **U** - Tapped from Bottom

Profile Size _____
15 - 15 mm **30** - 30 mm
20 - 20 mm **35** - 35 mm
25 - 25 mm **45** - 45 mm
 55 - 55 mm

Block Width _____
M - Standard **F** - Flanged

Block Length _____
S - Short **N** - Standard **L** - Long

Block Seals _____
S - Standard **B** - Low Friction **SN** - Metal Scraper

Block Lube _____
 - None **Z** - Lubrication Pad

Block Bearings _____
 - Standard **C** - Ball Chain

Preload Class _____
V0 - Light **V1** - Medium **V2** - Heavy

Accuracy Grade _____
N - Normal **H** - High **P** - Precision

Number of Blocks _____
2 - Number of blocks on each rail

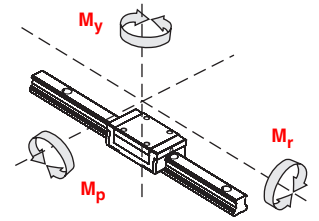
Rail Length _____
xxxx - Overall rail length (mm)

Start Hole _____
xx - Distance from end (mm)

End Hole _____
xx - Distance from end (mm)

Load Capacities - ARC series

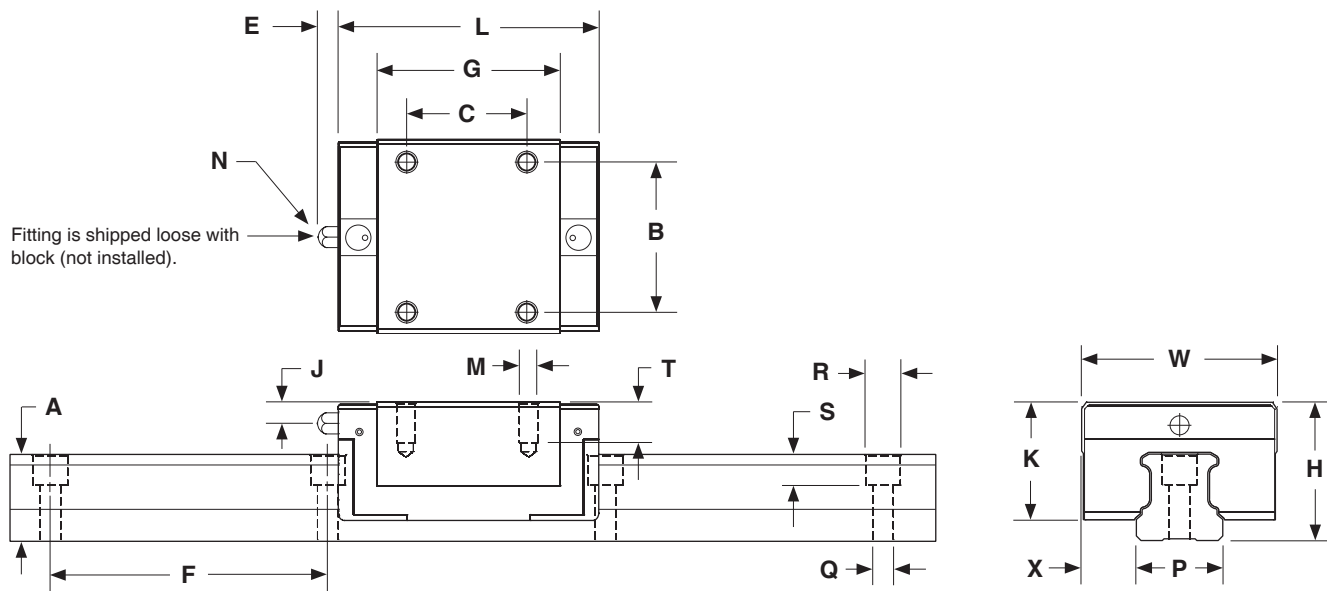
Model Number	Dynamic Load Capacity C ₅₀ (kN @ 50 km)		Static Load Capacity C ₀ (kN)		Static Moment Loads					
	Standard	with Ball Chain	Standard	with Ball Chain	M _r (Nm)		M _p (Nm)		M _y (Nm)	
					Standard	with Ball Chain	Standard	with Ball Chain	Standard	with Ball Chain
ARC 15 MS ARC 15 FS	9.7	10.7	12.1	10.8	100	85	50	45	50	45
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

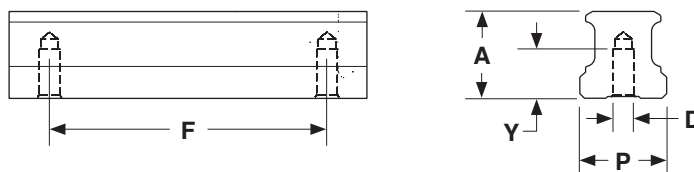
Dimensions & Specifications

Model Number	Outline (mm)			Block Dimensions (mm)								Rail Dimensions (mm)					Weight	
	Height H	Width W	Length L	B	C	M x T	K	G	N	J	E	P	X	A	F	Q x R x S	Block (kg)	Rail (kg/m)
ARC 15 MS			41.2		-			26									0.11	
ARC 15 MN	24	34	55.5	26	26	M4 x 7	20.7	40.3	M3 x 6.5	4.5	5.3	15	9.5	15	60	4.5 x 7.5 x 5.3	0.16	1.29
ARC 15 ML			76.2		34			61									0.24	
ARC 20 MS			49.2		-			32.2									0.17	
ARC 20 MN	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	2.28
ARC 20 ML			87.2		45			70.2									0.33	
ARC 25 MS			57.4		-			38.4									0.30	
ARC 25 MN	33	48	81.2	35	35	M6 x 9	27	62.2	M6 x 7.5	5	12	23	12.5	23	60	7 x 11 x 9	0.42	3.02
ARC 30 MS			68		-			44									0.56	
ARC 30 MN	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	4.38
ARC 30 ML			118		60			94									1.14	
ARC 35 MN			111.2		50			86.2									1.12	
ARC 35 ML	48	70	136.6	50	72	M8 x 13	40.4	111.6	M6 x 10	8	12	34	18	32	80	9 x 14 x 12	1.54	6.79
ARC 45 MN			135.5		60			102.5									2.12	
ARC 45 ML	60	86	171.5	60	80	M10 x 17	50.7	138.5	PT1/8 x 12.5	11.1	14	45	20.5	39	105	14 x 20 x 17	3.16	10.53
ARC 55 MN			168.5		75			126.5									4.20	
ARC 55 ML	70	100	202	75	95	M12 x 20	58	160	M6 x 10	13.5	12	53	23.5	45.7	120	16 x 24 x 20	5.08	14.0



Rail Size	(mm)			
	D x Y	P	A	F
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

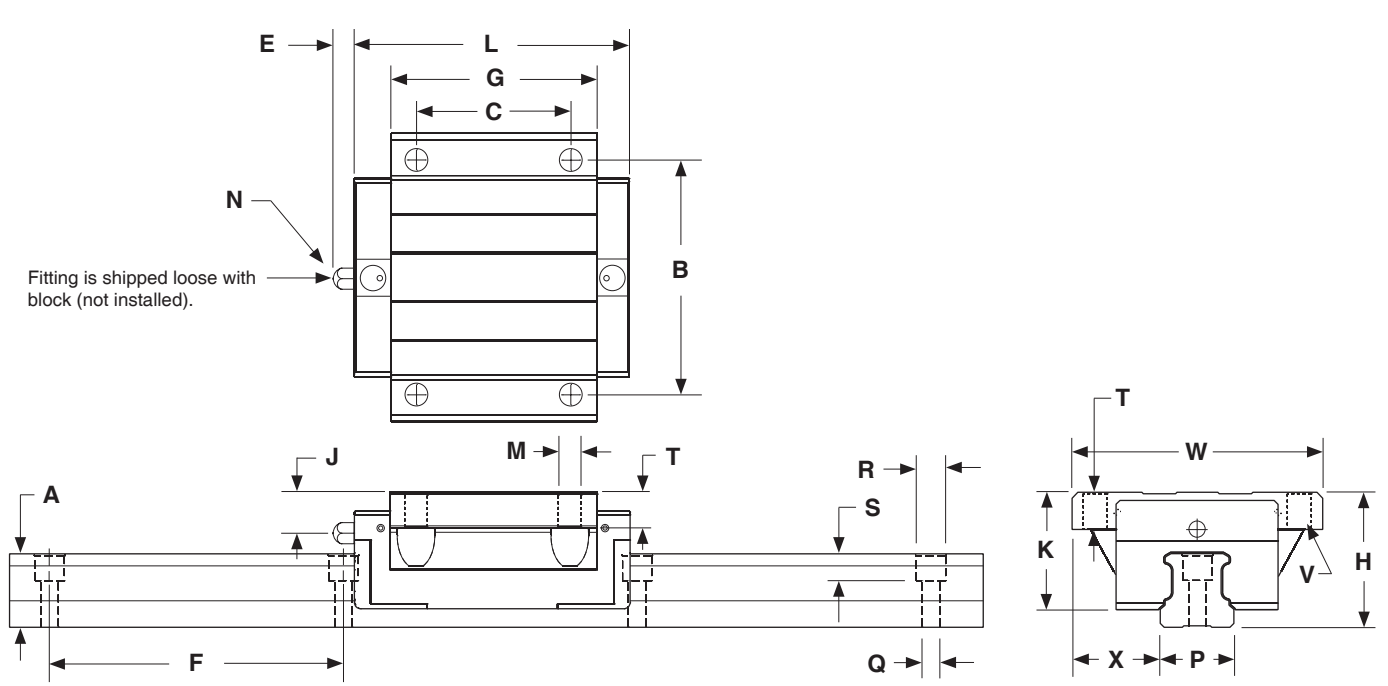
Rail Tapped from Bottom



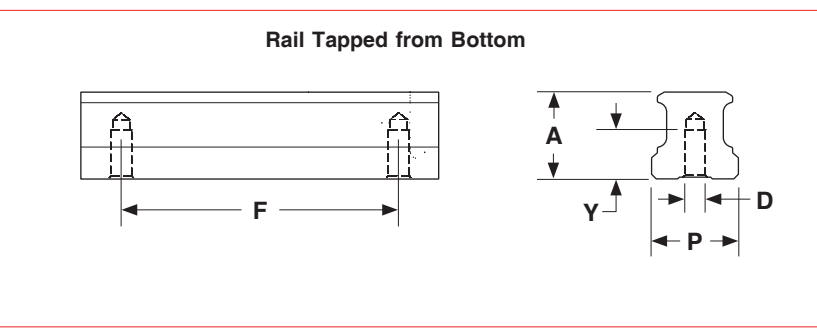
Specifications subject to change without notice

Dimensions & Specifications

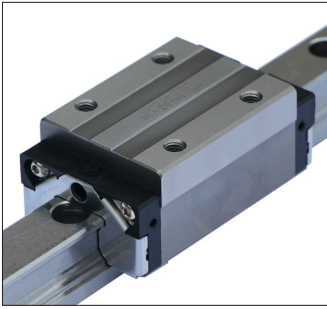
Model Number	Outline (mm)			Block Dimensions (mm)									Rail Dimensions (mm)						Weight	
	Height H	Width W	Length L	B	C	M x T	V	K	G	N	J	E	P	X	A	F	Q x R x S	Block (kg)	Rail (kg/m)	
ARC 15 FS ARC 15 FN	24	52	41.2 55.5	41	- 26	M5 x 7	M4	20.7	26 40.3	M3 x 6.5	4.5	5.3	15	18.5	15	60	4.5 x 7.5 x 5.3	0.13 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	



Rail Size	(mm)			
	D x Y	P	A	F
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



Specifications subject to change without notice



- * 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
- * 3 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 U 15 M N S Z C V1 H - 2 - 1260 - 30 - 30

Series Type _____
HRC - Heavy Load Profile Rail

Rail Type _____
 - Standard **U** - Tapped from Bottom

Profile Size _____
15 - 15 mm **30** - 30 mm
20 - 20 mm **35** - 35 mm
25 - 25 mm **45** - 45 mm
 55 - 55 mm

Block Width _____
M - Standard **F** - Flanged

Block Length _____
N - Standard **L** - Long

Block Seals _____
S - Standard **B** - Low Friction **SN** - Metal Scraper

Block Lube _____
 - None **Z** - Lubrication Pad

Block Bearings _____
 - Standard **C** - Ball Chain

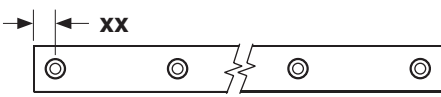
Preload Class _____
V0 - Light **V1** - Medium **V2** - Heavy

Accuracy Grade _____
N - Normal **H** - High **P** - Precision

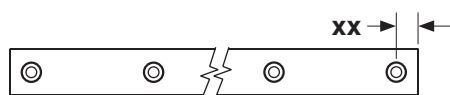
Number of Blocks _____
2 - Number of blocks on each rail

Rail Length _____
xxxx - Overall rail length (mm)

Start Hole _____
xx - Distance from end (mm)

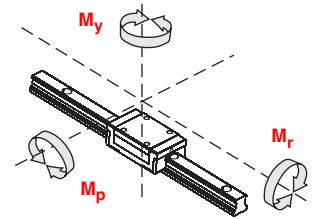


End Hole _____
xx - Distance from end (mm)



Load Capacities - HRC series

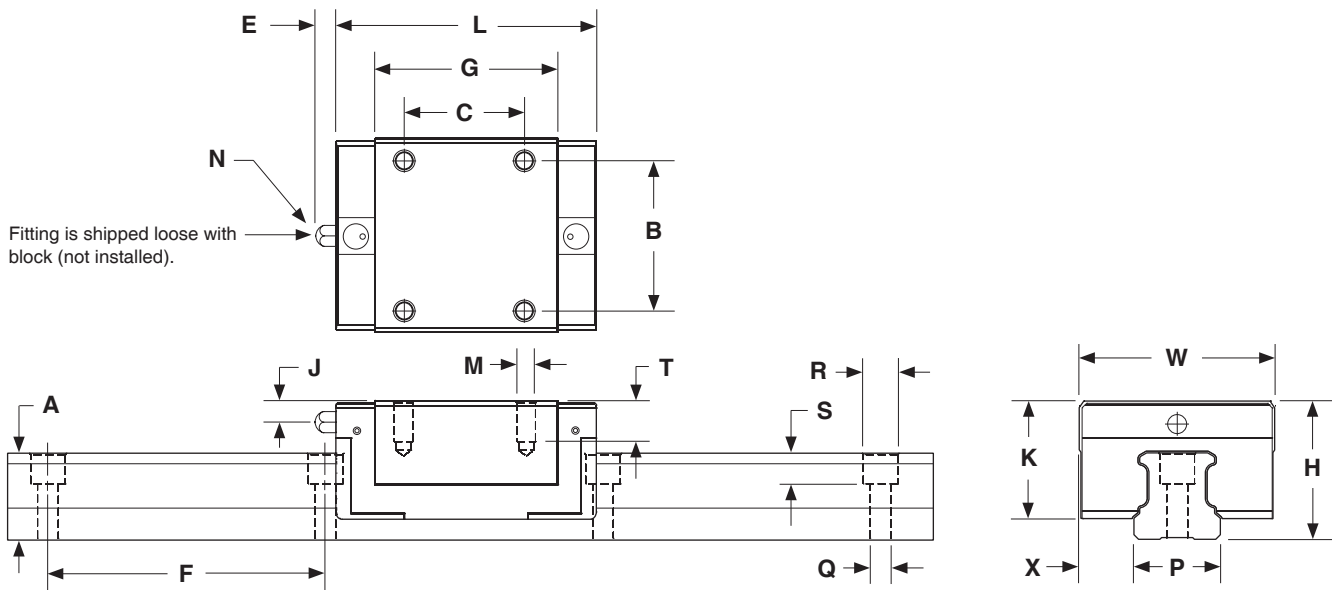
Model Number	Dynamic Load Capacity C ₅₀ (kN @ 50 km)		Static Load Capacity C ₀ (kN)		Static Moment Loads					
	Standard	with Ball Chain	Standard	with Ball Chain	M _r (Nm)		M _p (Nm)		M _y (Nm)	
					Standard	with Ball Chain	Standard	with Ball Chain	Standard	with Ball Chain
HRC 15 MN HRC 15 FN	12.5	14.9	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

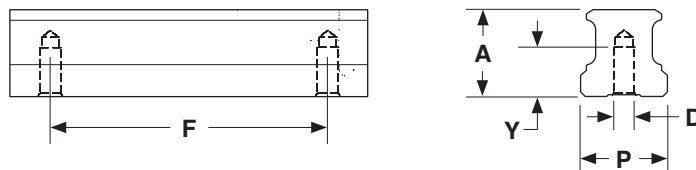
Dimensions & Specifications

Model Number	Outline (mm)			Block Dimensions (mm)								Rail Dimensions (mm)					Weight	
	Height H	Width W	Length L	B	C	M x T	K	G	N	J	E	P	X	A	F	Q x R x S	Block (kg)	Rail (kg/m)
HRC 15 MN HRC 15 ML	28	34	55.5 76.2	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



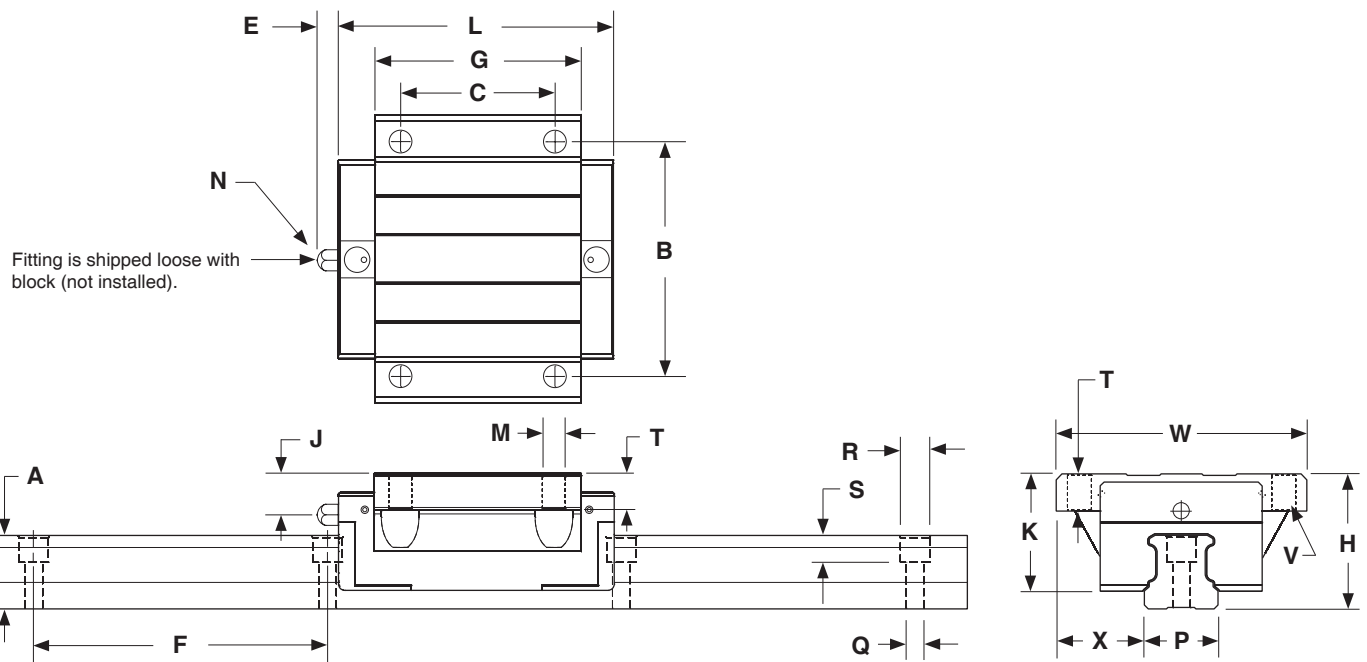
Rail Size	(mm)			
	D x Y	P	A	F
HRCU 15	M5 x 8	15	15	60
HRCU 20	M6 x 10	20	20	60
HRCU 25	M6 x 12	23	23	60
HRCU 30	M8 x 15	28	27	80
HRCU 35	M8 x 15	34	32	80
HRCU 45	M12 x 19	45	39	105
HRCU 55	M14 x 24	53	45.7	120

Rail Tapped from Bottom



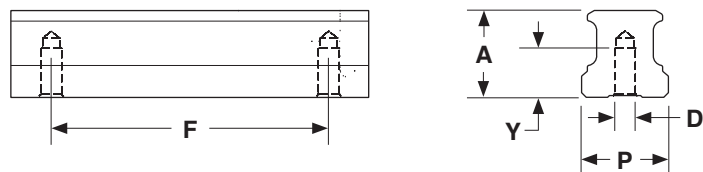
Dimensions & Specifications

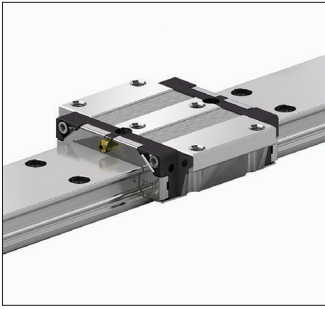
Model Number	Outline (mm)			Block Dimensions (mm)									Rail Dimensions (mm)					Weight	
	Height H	Width W	Length L	B	C	M x T	V	K	G	N	J	E	P	X	A	F	Q x R x S	Block (kg)	Rail (kg/m)
HRC 15 FN HRC 15 FL	24	47	55.5 76.2	38	30	M5 x 7	M4	20.7	40.3 61	M3 x 6.5	4.5	5.3	15	16	15	60	4.5 x 7.5 x 5.3	0.19 0.29	1.29
HRC 20 FN HRC 20 FL	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
HRC 25 FN HRC 25 FL	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
HRC 30 FN HRC 30 FL	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
HRC 35 FN HRC 35 FL	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
HRC 45 FN HRC 45 FL	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
HRC 55 FN HRC 55 FL	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



Rail Size	(mm)			
	D x Y	P	A	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

Rail Tapped from Bottom





- * 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
 - * 3 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

WRC U 21/15 M N S C V1 H - 2 - 1260 - 30 - 30

Series Type _____
WRC - Wide Profile Rail

Rail Type _____
 - Standard **U** - Tapped from Bottom

Profile Size _____
21/15 **27/20**

Block Width _____
M - Standard **F** - Flanged

Block Length _____
N - Standard

Block Seals _____
B - Low Friction

Block Bearings _____
 - Standard **C** - Ball Chain

Preload Class _____
V0 - Light **V1** - Medium **V2** - Heavy

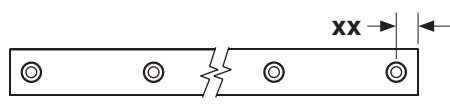
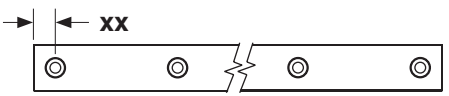
Accuracy Grade _____
N - Normal **H** - High **P** - Precision

Number of Blocks _____
2 - Number of blocks on each rail

Rail Length _____
xxxx - Overall rail length (mm)

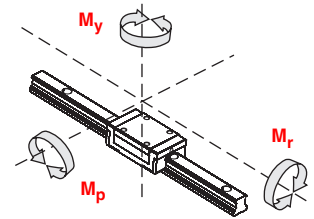
Start Hole _____
xx - Distance from end (mm)

End Hole _____
xx - Distance from end (mm)



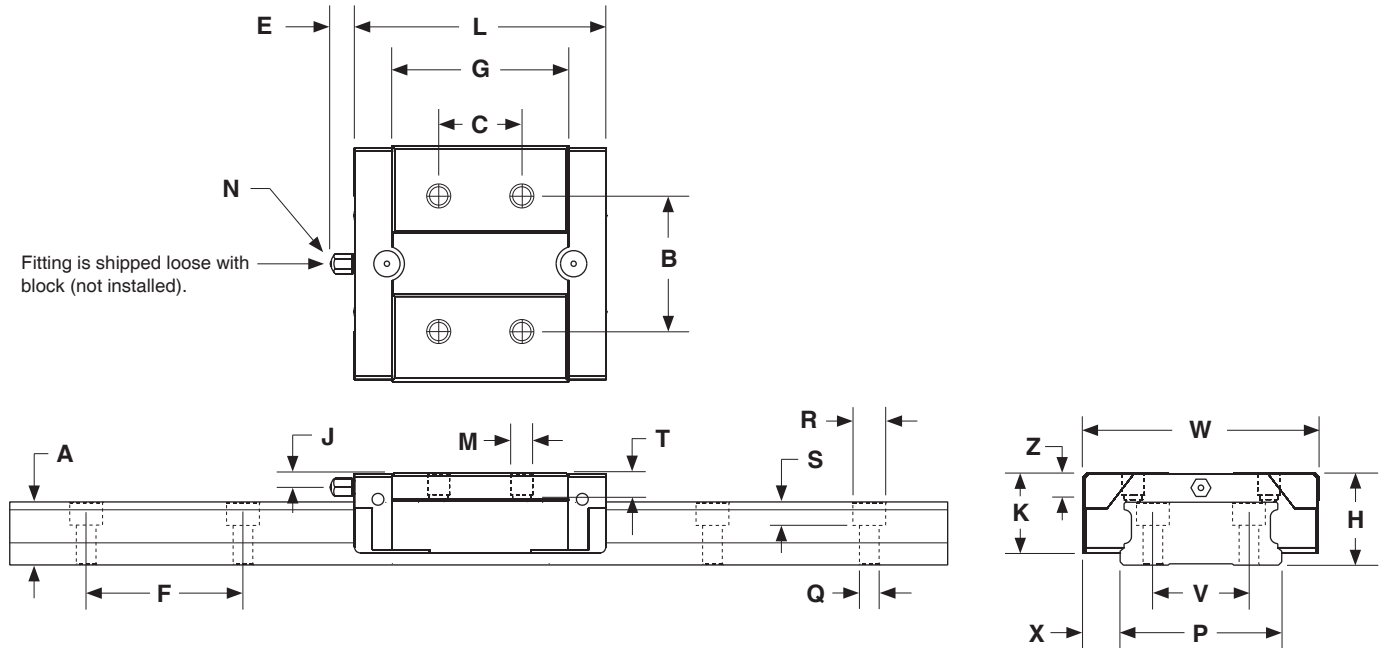
Load Capacities - WRC series

Model Number	Dynamic Load Capacity C ₅₀ (kN @ 50 km)		Static Load Capacity C ₀ (kN)		Static Moment Loads					
	Standard	with Ball Chain	Standard	with Ball Chain	M _r (Nm)		M _p (Nm)		M _y (Nm)	
					Standard	with Ball Chain	Standard	with Ball Chain	Standard	with Ball Chain
WRC 21/15 MN & FN	12.5	14.8	17.5	16.2	315	295	105	95	105	95
WRC 27/20 MN & FN	21.5	28.1	30.0	25.7	634	535	230	200	230	200



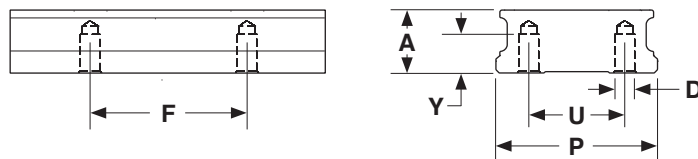
Dimensions & Specifications

Model Number	Outline (mm)			Block Dimensions (mm)									Rail Dimensions (mm)						Weight	
	Height H	Width W	Length L	B	C	M x T	K	G	Z	N	J	E	P	V	X	A	F	Q x R x 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	3.5	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 x 6	23.5	52	9	M3 x 7.5	4.5	3.5	42	24	10	18.5	60	4.5 x 7.5 x 5.3	0.32	5.26



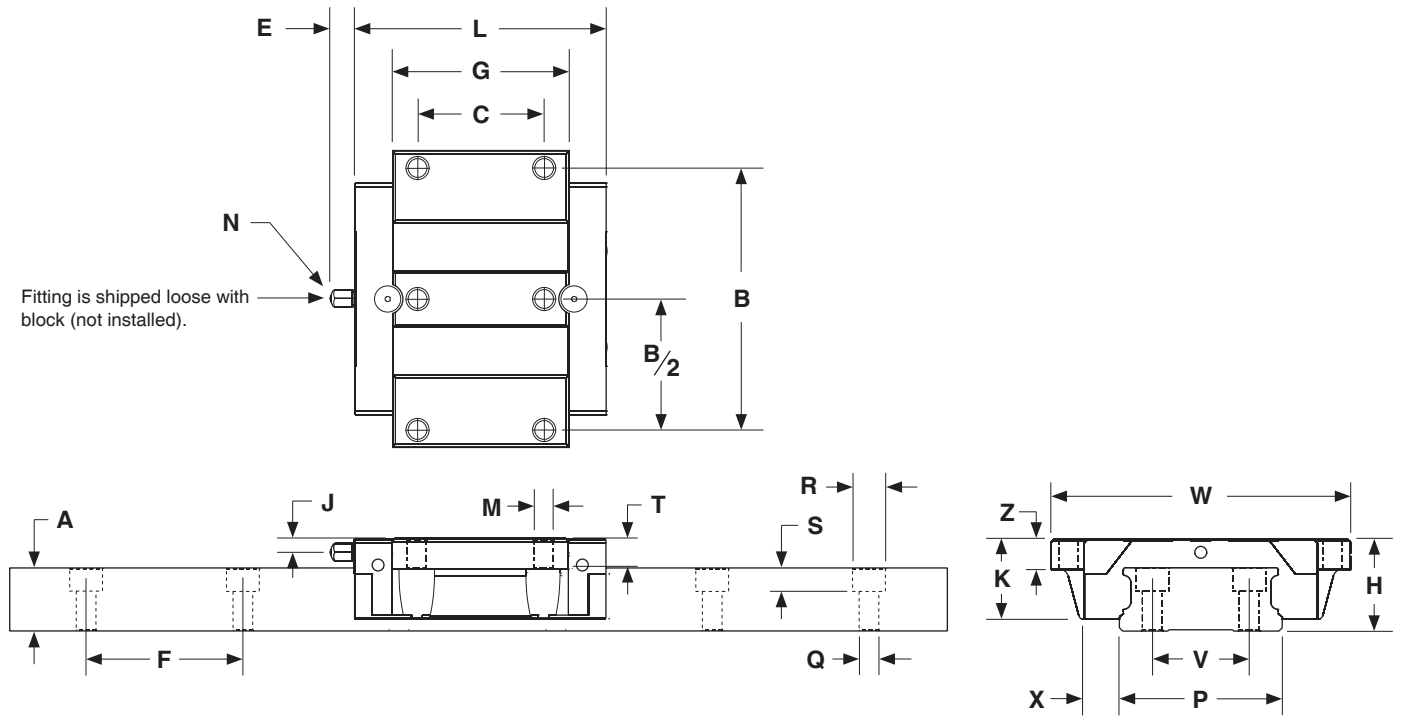
Rail Size	(mm)				
	D x Y	P	A	F	U
WRCU 21/15	M4 x 8	37	14.4	50	22
WRCU 27/20	M5 x 7.5	42	18.5	60	24

Rail Tapped from Bottom

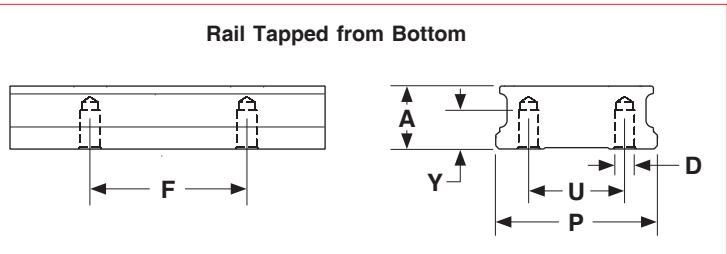


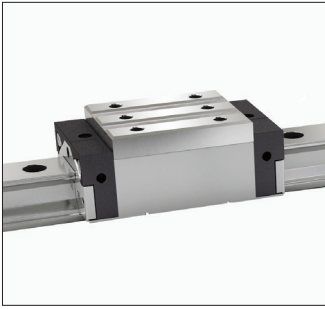
Dimensions & Specifications

Model Number	Outline (mm)			Block Dimensions (mm)									Rail Dimensions (mm)						Weight	
	Height H	Width W	Length L	B	C	M x T	K	G	Z	N	J	E	P	V	X	A	F	Q x R x S	Block (kg)	Rail (kg/m)
WRC 21/15 FN	21	68	57.5	60	29	M5 x 6	18.3	40.3	6	M3 x 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
WRC 27/20 FN	27	80	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	5.26



Rail Size	(mm)				
	D x Y	P	A	F	U
WRCU 21/15	M4 x 8	37	14.4	50	22
WRCU 27/20	M5 x 7.5	42	18.5	60	24





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

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

ARR U 35 M N S C V1 H - 2 - 1260 - 30 - 30

Series Type _____

ARR - Standard Height Roller Linear Guide
HRR - High Profile Roller Linear Guide
LRR - Low Profile Roller Linear Guide

Rail Type _____

- Standard **U** - Tapped from bottom

Profile Size _____

35 - 35 mm **45** - 45 mm

Block Width _____

M - Standard **F** - Flanged

Block Length _____

N - Standard **L** - Long

Block Seals _____

S - Standard

Block Bearings _____

- Standard **C** - Ball Chain

Preload Class _____

V0 - Light **V1** - Medium **V2** - Heavy

Accuracy Grade _____

H - High **P** - Precision

Number of Blocks _____

2 - Number of blocks on each rail

Rail Length _____

xxxx - Overall rail length (mm)

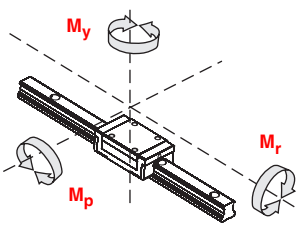
Start Hole _____

xx - Distance from end (mm)

End Hole _____

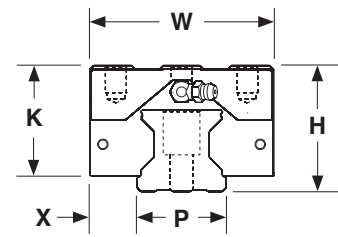
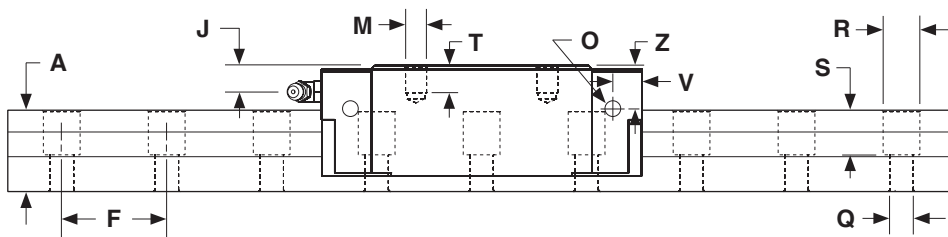
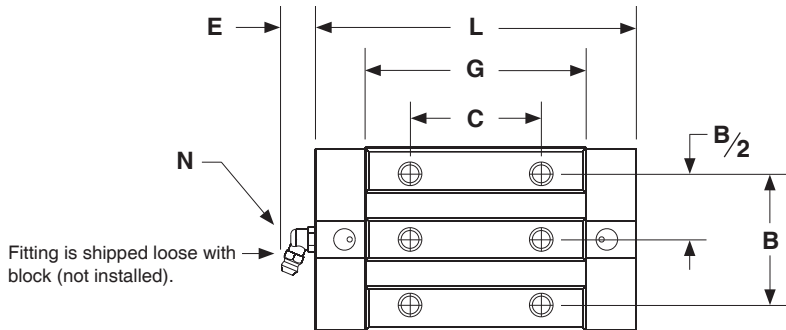
xx - Distance from end (mm)

Load Capacities - ARR & HRR & LRR series

Model Number	Dynamic Load Capacity C ₅₀ (kN @ 50 km)		Static Load Capacity C ₀ (kN)		Static Moment Loads						
	Standard	with Ball Chain	Standard	with Ball Chain	M _r (Nm)		M _p (Nm)		M _y (Nm)		
					Standard	with Ball Chain	Standard	with Ball Chain	Standard	with 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	
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	

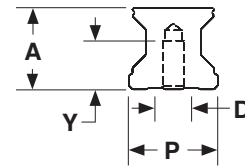
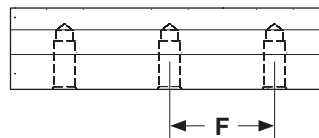
Dimensions & Specifications

Model Number	Outline (mm)			Block Dimensions (mm)											Rail Dimensions (mm)					Weight	
	Height H	Width W	Length L	B	C	M x T	K	G	N	J	E	O	Z	V	P	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



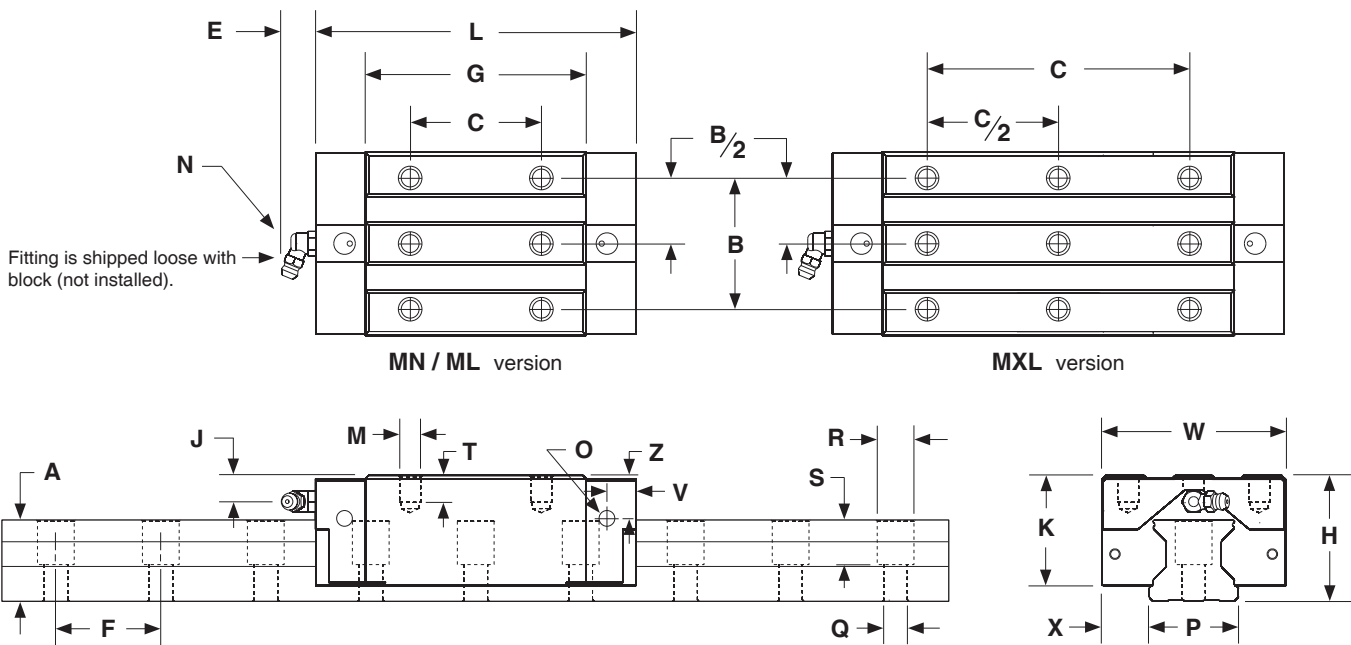
Rail Size	(mm)			
	D x Y	P	A	F
ARRU 35	M8 x 15	34	31	40
ARRU 45	M12 x 19	45	38	52.5

Rail Tapped from Bottom



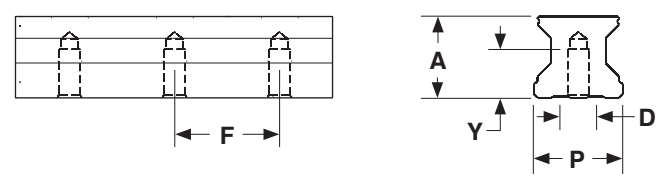
Dimensions & Specifications

Model Number	Outline (mm)			Block Dimensions (mm)											Rail Dimensions (mm)					Weight	
	Height H	Width W	Length L	B	C	M x T	K	G	N	J	E	O	Z	V	P	X	A	F	Q x R x S	Block (kg)	Rail (kg/m)
HRR 35 MN			122	50				84												1.72	
HRR 35 ML	55	70	147.5	50	72	M8 x 16	49	109.5	M6 x 12	17	12	M6 x 8	23.4	11	34	18	31	40	9 x 14 x 17	2.1	5.74
HRR 35 MXL			177.5		100			139.5												2.7	
HRR 45 MN			156	60				110												3.4	
HRR 45 ML	70	86	191	60	80	M10 x 20	62	145	M6 x 12	24.6	12	M6 x 8	31.8	11	45	20.5	38	52.5	14 x 20 x 17	4.3	10.0
HRR 45 MXL			226		120			180												5.2	



Rail Size	(mm)			
	D x Y	P	A	F
HRRU 35	M8 x 15	34	31	40
HRRU 45	M12 x 19	45	38	52.5

Rail Tapped from Bottom



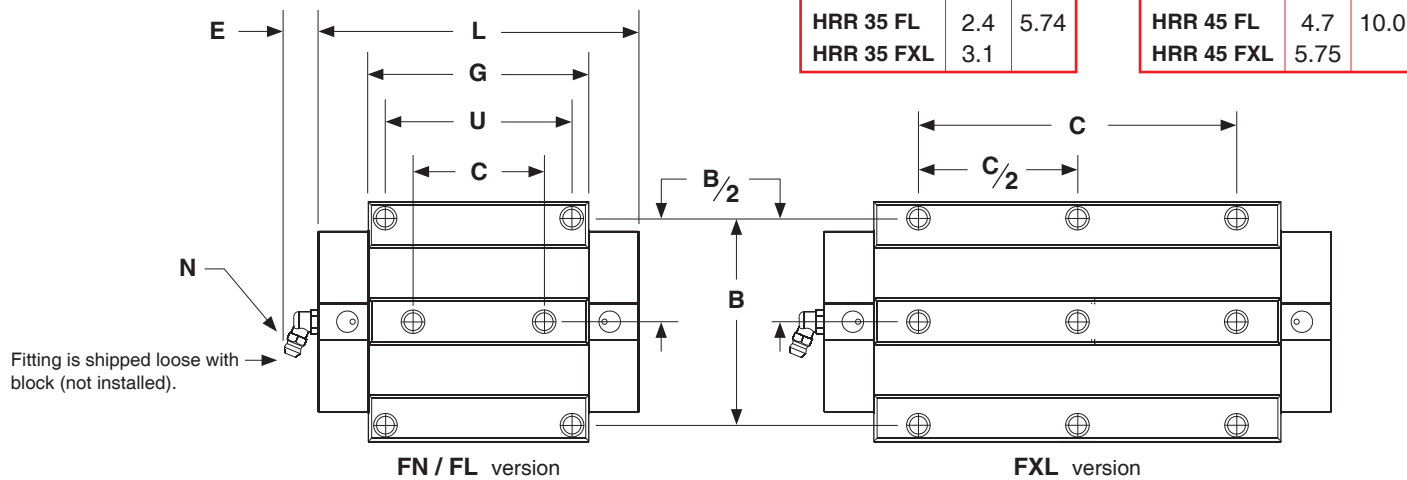
Specifications subject to change without notice

Dimensions & Specifications

Model Number	Outline (mm)			Block Dimensions (mm)													Rail Dimensions (mm)					
	Height H	Width W	Length L	B	C	U	M x T	M ₁ x T ₁	K	G	N	J	E	O	Z	V	P	X	A	F	Q x R x S	
HRR 35 FN			122	52	62					84												
HRR 35 FL	48	100	147.5	82	52	62	M8 x 13	M10 x 13	42	109.5	M6 x 12	10	12	M6 x 8	16.4	11	34	33	31	40	9 x 14 x 17	
HRR 35 FXL			177.5		100					139.5												
HRR 45 FN			156	60	80					110												
HRR 45 FL	60	120	191	100	60	80	M10 x 15	M12 x 15	52	145	M6 x 12	14.6	12	M6 x 8	21.8	11	45	37.5	38	52.5	14 x 20 x 17	
HRR 45 FXL			226		120					180												

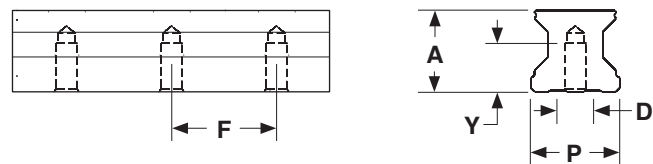
Model Number	Weight	
	Block (kg)	Rail (kg/m)
HRR 35 FN	1.7	
HRR 35 FL	2.4	5.74
HRR 35 FXL	3.1	

Model Number	Weight	
	Block (kg)	Rail (kg/m)
HRR 45 FN	3.6	
HRR 45 FL	4.7	10.0
HRR 45 FXL	5.75	



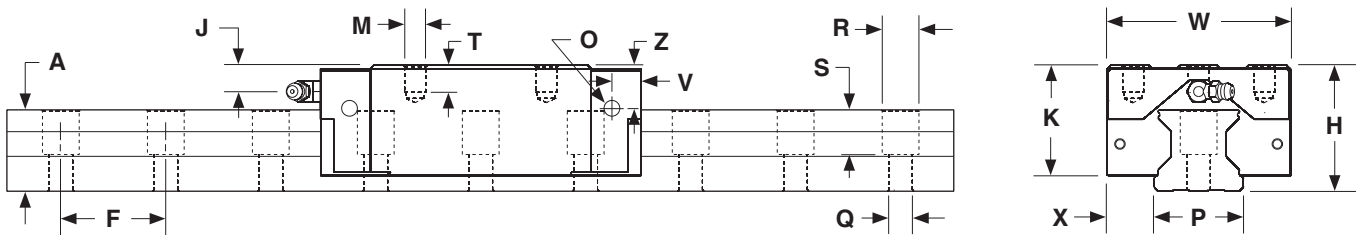
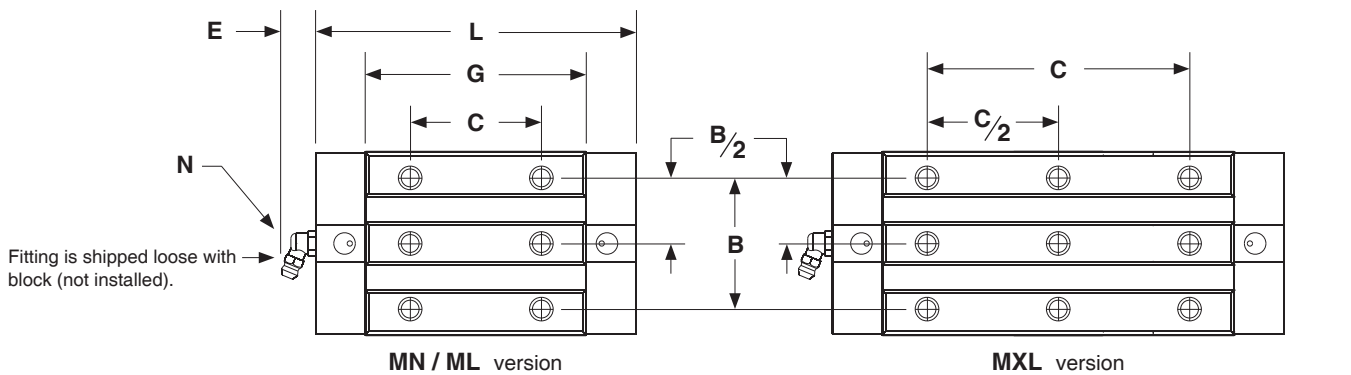
Rail Size	(mm)			
	D x Y	P	A	F
HRRU 35	M8 x 15	34	31	40
HRRU 45	M12 x 19	45	38	52.5

Rail Tapped from Bottom



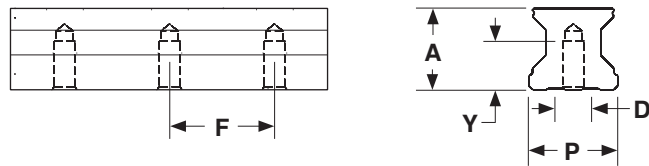
Dimensions & Specifications

Model Number	Outline (mm)			Block Dimensions (mm)											Rail Dimensions (mm)					Weight	
	Height H	Width W	Length L	B	C	M x T	K	G	N	J	E	O	Z	V	P	X	A	F	Q x R x S	Block (kg)	Rail (kg/m)
LRR 35 MN			122		50			84												1.1	
LRR 35 ML	44	70	147.5	50	72	M8 x 9	38	109.5	M6 x 12	6	12	M6 x 8	12.4	11	34	18	31	40	9 x 14 x 17	1.5	5.74
LRR 35 MXL			177.5		100			139.5												1.9	
LRR 45 MN			156		60			110												2.1	
LRR 45 ML	52	86	191	60	80	M10 x 11	44	145	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	10.0
LRR 45 MXL			226		120			180												3.2	



Rail Size	(mm)			
	D x Y	P	A	F
LRRU 35	M8 x 15	34	31	40
LRRU 45	M12 x 19	45	38	52.5

Rail Tapped from Bottom

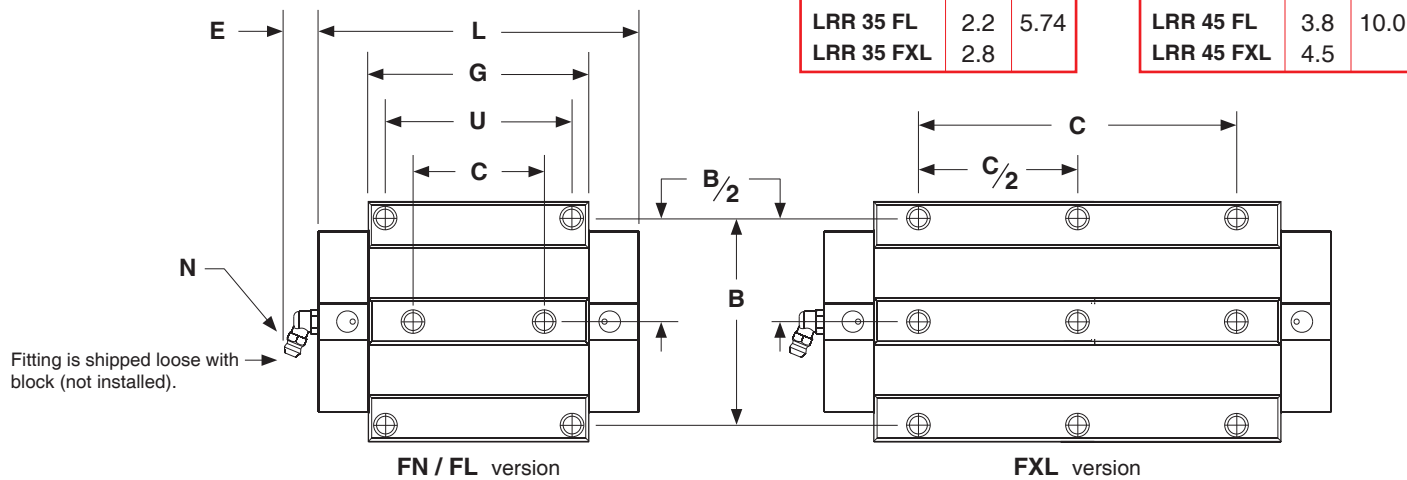


Dimensions & Specifications

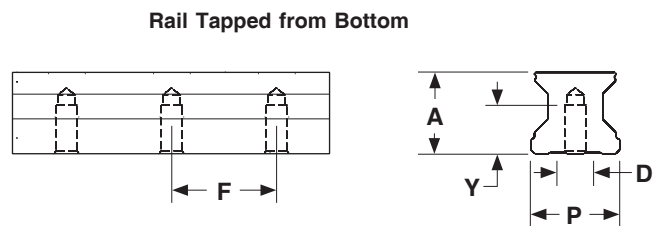
Model Number	Outline (mm)			Block Dimensions (mm)													Rail Dimensions (mm)					
	Height H	Width W	Length L	B	C	U	M x T	M ₁ x T ₁	K	G	N	J	E	O	Z	V	P	X	A	F	Q x R x S	
LRR 35 FN			122		52	62				84												
LRR 35 FL	44	100	147.5	82	52	62	M8 x 9	M10 x 13	38	109.5	M6 x 12	6	12	M6 x 8	12.4	11	34	33	31	40	9 x 14 x 17	
LRR 35 FXL			177.5		100					139.5												
LRR 45 FN			156		60	80				110												
LRR 45 FL	52	120	191	100	60	80	M10 x 10	M12 x 15	44	145	M6 x 12	6.6	12	M6 x 8	13.8	11	45	37.5	38	52.5	14 x 20 x 17	
LRR 45 FXL			226		120					180												

Model Number	Weight	
	Block (kg)	Rail (kg/m)
LRR 35 FN	1.55	
LRR 35 FL	2.2	5.74
LRR 35 FXL	2.8	

Model Number	Weight	
	Block (kg)	Rail (kg/m)
LRR 45 FN	2.9	
LRR 45 FL	3.8	10.0
LRR 45 FXL	4.5	



Rail Size	(mm)			
	D x Y	P	A	F
LRRU 35	M8 x 15	34	31	40
LRRU 45	M12 x 19	45	38	52.5



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-cm ²	ounce-inches ²	0.00546745
Gram-cm ²	ounce-inch-sec ²	0.000014161
Gram-cm ²	pound-inches ²	0.000341716
Gram-cm ²	pound-inch-sec ²	0.000000885
Gram-cm ²	pound-feet-sec ²	0.000000074
Ounce-inches ²	gram-cm ²	182.901
Ounce-inches ²	ounce-inch-sec ²	0.00259008
Ounce-inches ²	pound-inches ²	0.0625
Ounce-inches ²	pound-inch-sec ²	0.00016188
Ounce-inches ²	pound-feet-sec ²	0.00001349
Ounce-inch-sec ²	gram-cm ²	70,615.4
Ounce-inch-sec ²	ounce-inches ²	386.0
Ounce-inch-sec ²	pound-inches ²	24.13045
Ounce-inch-sec ²	pound-inch-sec ²	0.0625
Ounce-inch-sec ²	pound-feet-sec ²	0.00520833
Pound-inches ²	gram-cm ²	2,926.41
Pound-inches ²	ounce-inches ²	16.0
Pound-inches ²	ounce-inch-sec ²	0.0414413
Pound-inches ²	pound-inch-sec ²	0.00259008
Pound-inches ²	pound-feet-sec ²	0.00021584
Pound-inch-sec ²	gram-cm ²	1,129,850.0
Pound-inch-sec ²	ounce-inches ²	6,177.4
Pound-inch-sec ²	ounce-inch-sec ²	16.0
Pound-inch-sec ²	pound-inches ²	386.0
Pound-inch-sec ²	pound-feet-sec ²	0.0833333
Pound-feet-sec ²	gram-cm ²	13,558,200.0
Pound-feet-sec ²	ounce-inches ²	74,128.9
Pound-feet-sec ²	ounce-inch-sec ²	192.0
Pound-feet-sec ²	pound-inches ²	4,633.06
Pound-feet-sec ²	pound-inch-sec ²	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

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: www.LintechMotion.com
E-Mail: 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.

Payment Terms

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

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

Warranty

All *LINTECH* products are guaranteed to be free from defects in material and workmanship, under normal use, for a period of one year after date of shipment. This warranty covers the repair or replacement of a product when it is sent prepaid to *LINTECH*. *LINTECH* does not assume liability for installation, abuse, alteration, insufficient application data provided for a design, or misuse of any positioning system. Products furnished by *LINTECH*, but not manufactured by *LINTECH* (motors, gearheads, encoders, amplifiers, etc....), are subject to the manufacturers standard warranty terms and conditions.

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.

Dimensions and Product Changes

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 *LINTECH* believes 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.



Mechanical Motion Solutions

For over 48 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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YOUR LOCAL AUTOMATION SPECIALIST:

