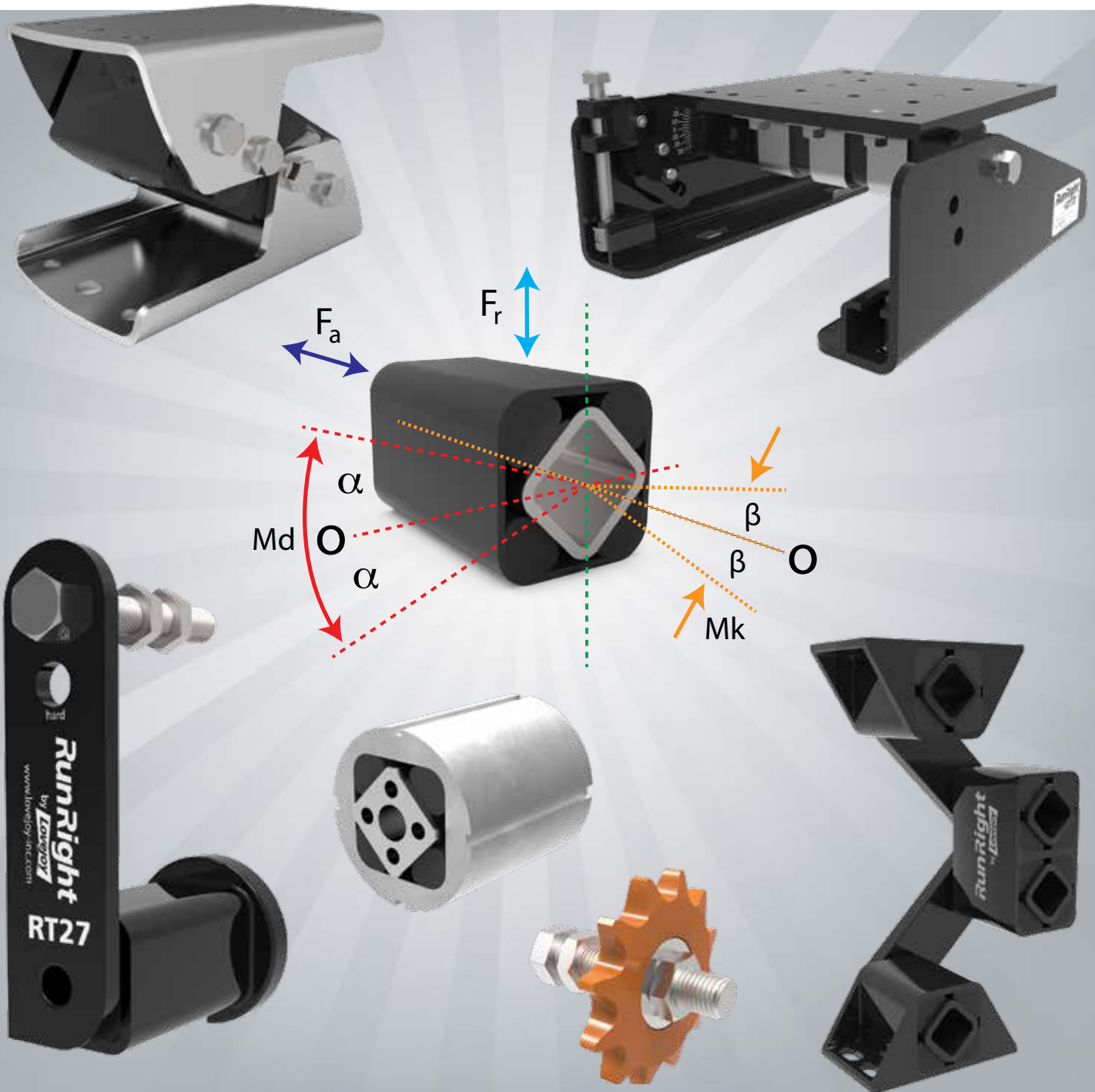


RunRight[®]

by **Lovejoy**

- Tensioners
- Sprocket / Idler Accessories
- Motor Bases
- Oscillating Mounts
- Rubber Suspension Units
- Anti-Vibration Mounts



The leader in elastomeric tensioning devices.



Lovejoy, LLC is a world leader in the manufacture of highly engineered industrial power transmission components.

Lovejoy offers the largest selection of couplings with more than 20,000 different styles and sizes to address the needs of virtually every industry. Other products include shaft locking devices, motor bases, variable speed drives, hydraulic accessories, and vibration and tensioning devices. Lovejoy's product portfolio is poised to address today's demand in providing durability, ease of installation, and minimal maintenance.

Commitment to Customers and Innovation.

With its longstanding reputation for innovation, service and quality-driven work performance, Lovejoy has developed the expertise to engineer products that address the complex needs of its customers' applications. Selecting the right coupling for the application comes from the expertise of Lovejoy's engineers who combine their extensive knowledge – using the largest coupling selection in combination with the most advanced computer technology – to develop solutions to address the changing demands of customers' applications. Lovejoy has a worldwide reputation for building and sustaining long-term customer satisfaction through quality of service, products and design reliability. Certified to ISO 9001 International Standards for Quality Management, Lovejoy manufactures its products to the exacting requirements of international standards such as AGMA, ANSI, SAE, DIN, JIS and Imperial. Lovejoy is also an accepted supplier of products that match military specifications.

Global in Reach, Service and Support.

Lovejoy has grown to become an international market leader by expanding its reach into the global marketplace. Lovejoy products are available through a network of distributors, located in every major market throughout North America and in over 35 other countries. Lovejoy ships more than 100,000 components each week. These components are exported globally – going to every industrialized continent. World headquarters are in Downers Grove, Illinois, USA with more than 300 employees. Business operations are located in the United States, Canada, and Germany. Among its various divisions is Timken Canada, located in Ontario, offers sales and customer service for Lovejoy products throughout Canada. R+L Hydraulics is a leading European supplier of hydraulic accessories as well as couplings, which expands Lovejoy's manufacturing and distribution capacities to produce couplings compatible with European standards and used for equipment built for export markets. Lovejoy's selection of universal joints includes both Lovejoy and Curtis designs.

For more information about Lovejoy, visit our website at www.lovejoy-inc.com



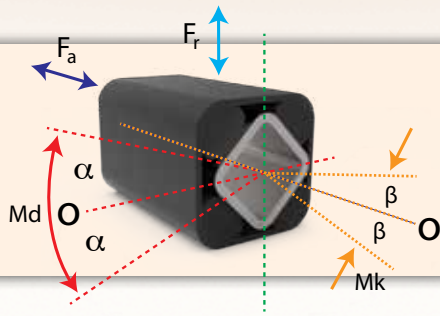
Lovejoy, LLC World Headquarters in Downers Grove, Illinois USA



Lovejoy continues to innovate and improve their products to optimally serve the many industries it supports.

Our Commitment to Customers...

Lovejoy, LLC has a worldwide reputation for building and sustaining long-term customer satisfaction through quality of service, products and design reliability. Certified to ISO 9001 International Standards for Quality Management, Lovejoy manufactures all of its products to the exacting requirements of international standards such as AGMA, ANSI, SAE, DIN, JIS and Imperial. Lovejoy is also an accepted supplier of products that match military specifications.



Technology Overview

See pages 4-7

TECHNOLOGY



Tensioner Devices

See pages 8-21

TENSIONER DEVICES



Motor Bases

See pages 22-33

MOTOR BASES



Oscillating Mounts

See pages 34-49

OSCILLATING MOUNTS



Rubber Suspension Units

See pages 50-60

RUBBER SUSPENSION



Anti-Vibration Mounts

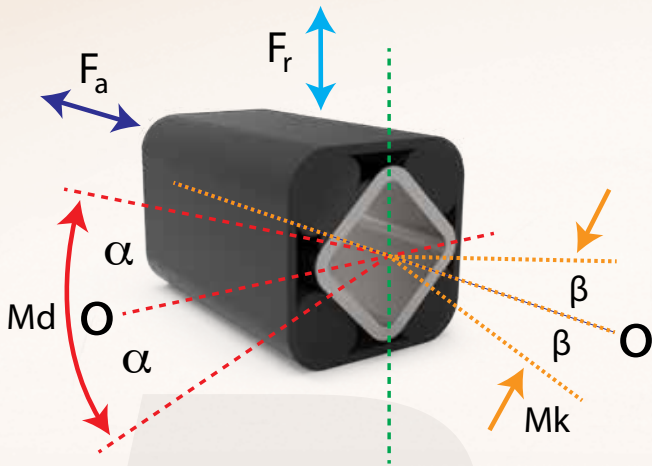
See pages 61-66

ANTI-VIBRATION

RunRight® Product Technology

The leader in elastomeric tensioning devices.

TECHNOLOGY

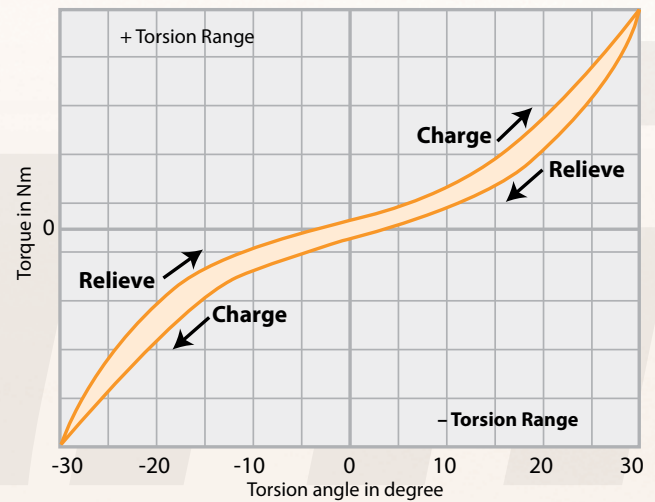


What makes RunRight Products Superior

RunRight rubber suspension units are designed for use in applications requiring a torsional spring feature with angles of operation of $\pm 30^\circ$. When using these units in an application, the torsional force that is applied as well as the radial, axial and/or cardanic forces need to be taken into consideration when sizing a unit. See page 53 for the applicable RunRight units' torque and load characteristics.

Spring Characteristic

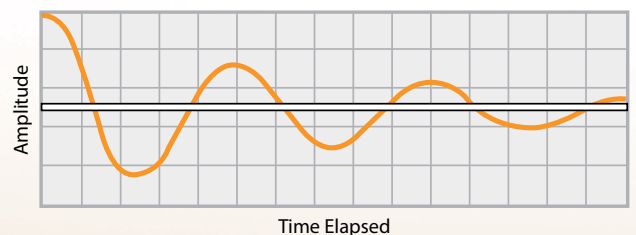
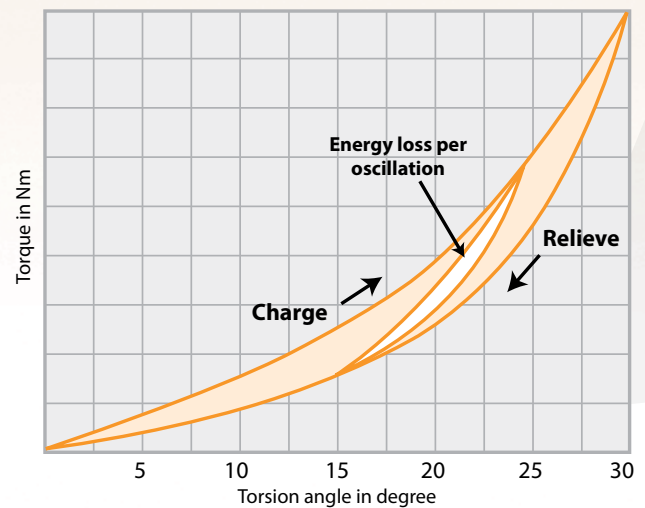
When the RunRight rubber suspension units are pivoted, a nearly linear spring characteristic occurs with a slightly progressive upper end, with a load applied close to a 30° rotation of the element. To obtain a functionally adapted spring characteristic, the leverage point may need to be altered and/or arm guidance may be needed through the use of a cam-disc. The volume of the elastomeric inserts will remain constant when in use.



Element Dampening

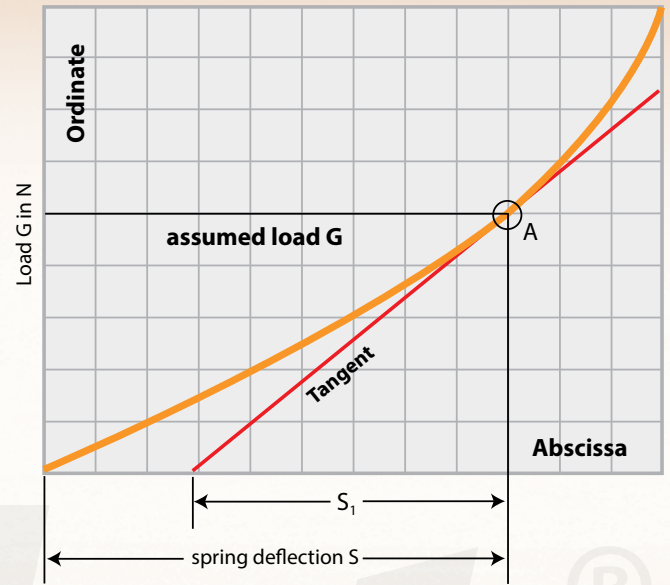
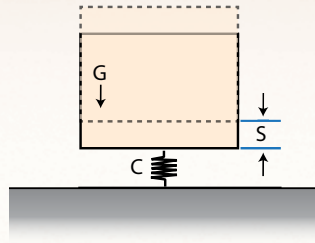
The energy dampening that takes place with the RunRight unit is the resulting energy loss that occurs in the rubber inserts during the pivoting action of the spring device. When the unit is pivoted, part of the created energy generates heat or frictional work. The area between the load and relieve headline indicates the resulting energy loss of the unit. 15% to 20% on average of energy loss occurs when the unit is actuated from the "0" zero position up to 30° . However, with pre-tensioned units, the actuated working angle is reduced to a few degrees, resulting in a reduced energy loss, see "Energy loss per oscillation" on graph.

Vigorous unit oscillations fade quickly following each post-pulse oscillation due to the occurring high energy loss. This is an important attribute when using the RunRight unit for screen mountings. The effects of power loss on the screen during normal operation is negligible; however, during the shutdown phase, an important amplitude exaggeration occurs which is close to the resonance frequency of the RunRight unit. Thus the RunRight unit absorbs and dampens the exaggerations, resulting in high energy loss within a few post-pulse oscillations.



Natural Frequency

The calculation of the natural frequency of a RunRight suspension unit has to be solved by drawing the tangent line at the loading point "A" of the parabolic arc of the load deflection curve. The distance on the axis of the abscissa, i.e. resulting "S", designates the arithmetical spring deflection in mm which is required for the determination of the natural frequency.



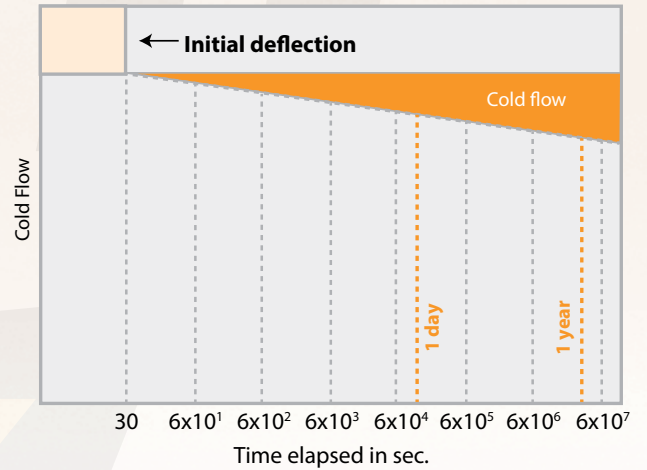
$$\text{Natural frequency } n_e = \frac{300}{\sqrt{s_1 \text{ (in cm)}}} = \text{min}^{-1}$$

$$\text{or } f_e = \frac{5}{\sqrt{s_1 \text{ (in cm)}}} = \text{Hz}$$

$$\text{Example } s_1 = 5 \text{ cm: } n_e = \frac{300}{\sqrt{5.0}} \cong 134 \text{ min}^{-1} \text{ or } 2.2 \text{ Hz}$$

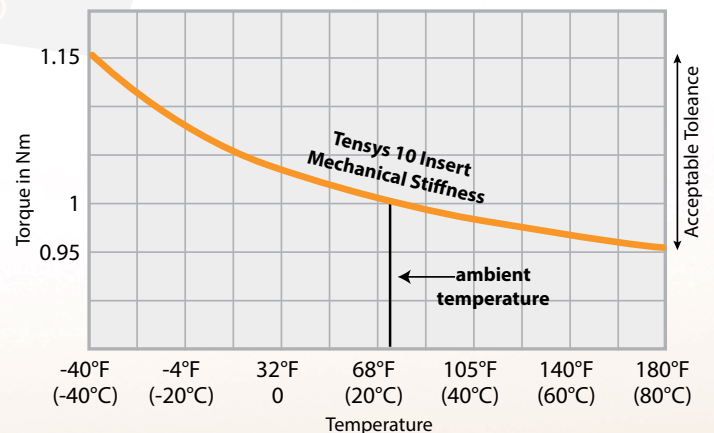
Cold Flow and Deformation

When a load is continually applied to an elastic material, such as the Tensys™ units, deformation or cold flow occurs. Cold flow appears during a linear logarithmic sequence. The corresponding chart shows that more than 50% of this deformation occurs after only one day of installation. Depending on the environmental temperatures and applied frequencies, after approximately one year of installation near total deformation of the units has occurred. Given the settling factor of a RunRight rubber suspension unit, the inner square will not totally move back to the neutral position of the element. With applications where there are several units in a series or parallel configuration (i.e. the RSC screen mountings) there is approximately +10% of effective cold flow of the nominal deflection curve. This effect must be taken into consideration when using RunRight units on screen mounting or axle bearings designs.



Temperature Effect

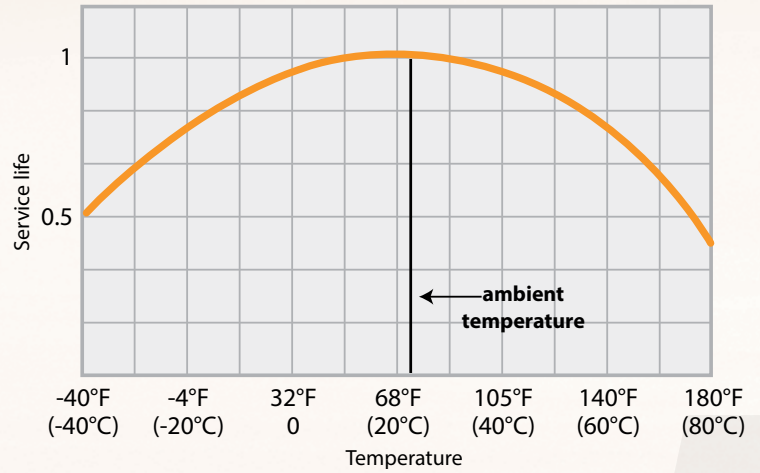
RunRight rubber suspension units manufactured with the Tensys 10 elastic inserts are designed to be used between the temperatures of -40° to 180°F (-40° to 80°C). When temperatures rise the mechanical stiffness of the rubber inserts and the resulting element torque will decrease within acceptable tolerances to approximately -5% at 180°F (80°C). At temperatures below freezing the torsional element stiffness will increase to a maximum of +15% at -40°F (-40°C). Also, the hysteresis of the RunRight rubber suspension units will increase at lower temperatures and then decrease with rising temperatures. The internal molecular friction caused by the torque applied to the element will warm the rubber inserts in a continuous manner. Therefore, the effective element temperature can vary in relation to the temperature of the environment.



RunRight® Product Technology

Service Life

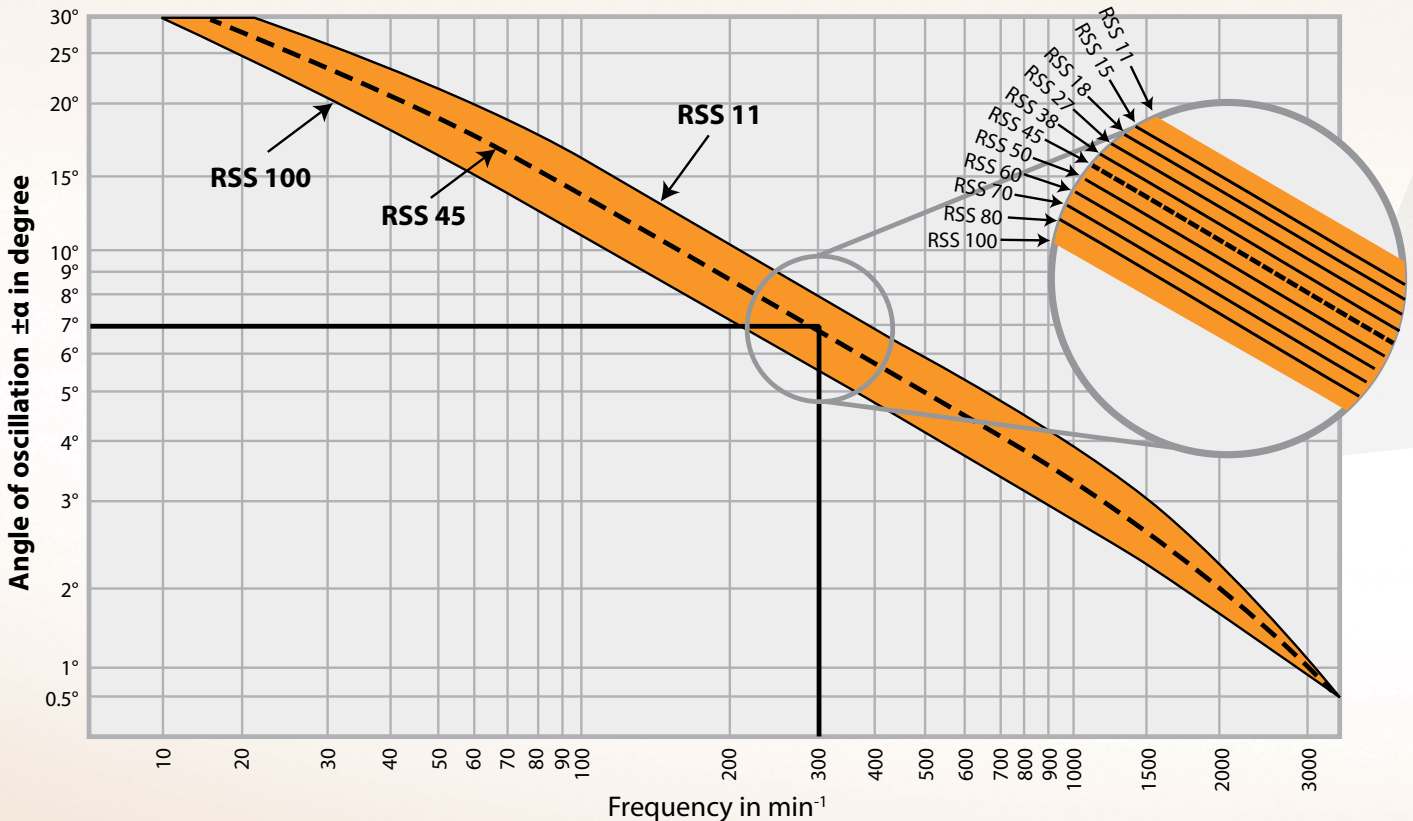
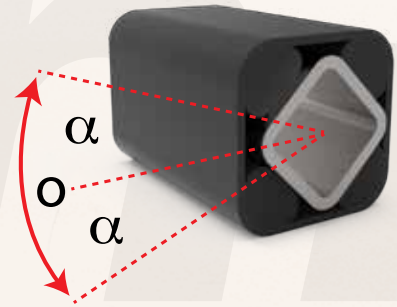
When the rubber suspension units are operating within the specified frequencies, oscillation angles, and recommended surrounding conditions, the unit's performance and function will be expected to perform for many years. Extremely low or high permanent temperatures will significantly shorten the life expectancy of the rubber suspension units. The Service Life Curve Chart shown to the right shows the life reduction at extreme high and low temperatures using a service life of 1 at the room temperature of 72°F (22°C).



Allowable Element Frequencies

Selection chart below is used for the determination of the maximum allowable frequencies dependent on the rubber suspension unit size (RSS 11, 15, 18, etc.) and the oscillation angle. The higher the frequency, the lower the oscillation angle and the lower the frequency, the higher the oscillation angle as shown in the Allowable Element Frequencies below.

Example: A rubber suspension unit RSS 45 can be rotated from the neutral position of 0° to an oscillation angle of +/-7° with a maximum frequency of 300 min⁻¹. Contact Lovejoy for applications of "pre-tensioned" elements working, i.e. under 15° of pre-tension and describing oscillation angles of +/-5° at 300 min⁻¹.





Rubber Characteristics

The majority of RunRight rubber suspension units are manufactured with Tensys™ 10 natural rubber inserts. The high content of natural rubber in the Tensys 10 offers shape retention, a limited amount of deformation, high mechanical load capabilities and limited hardening of the inserts. Applications requiring high oil resistance, high heat resistance or higher torque capability requires a different elastomeric insert as shown in the chart below.

Rubber Compounds	Torque & Load Factor*	Operating Temperature F° (C°)	Rubber Type	Rubber Characteristics
Tensys™ 10	1.0	-40° to 180° (-40° to 80°)	Natural	Standard
Tensys™ 20	approximately 1.0	-22° to 195° (-30° to 90°)	Neoprene	Oil Resistant
Tensys™ 40	approximately 0.6	180° to 250° (80° to 120°)	EPDM	High Temperature Resistant

Note: ■ *Factor in relation to torque & loads shown on standard selection charts.

Chemical Resistance

Standard RunRight rubber suspension units are manufactured with Tensys 10 elastic inserts. The quality of this rubber is due to the high content of natural rubber. This rubber offers a high chemical resistance to many solutions. There are some applications that would require synthetic elastomeric inserts. In these applications Tensys 20 or 40 would be required. When using the synthetic units, the characteristics of the inserts differ slightly, see Rubber Characteristics above for more information. The Chemical Resistance table below is a guideline for chemical compatibility. Please contact Lovejoy for specific applications regarding environmental conditions and the concentration of specific liquids or particulates that would come into contact with the rubber suspension units.

Tensys™	10	20	40
Acetone	+	--	++
Alcohol	++	++	++
Benzene	--	--	--
Caustic Soda Solution up to 25% (20°)	++	++	++
Citric Acid	++	+	-
Diesel	--	+	--
Formic Acid	+	+	-
Glycerine	+	+	++
Hydraulic Fluid	-	+	--
Hydrochloric Acid up to 15%	++	+	-
Javelle water	+	+	++
Lactic Acid	++	++	++
Liquid Ammonia	+	+	++
Lubricating grease and oil	--	+	--
Nitric Acid up to 10%	--	+	+
Nitro thinner	--	--	--
Fuel	--	-	--
Petroleum	--	+	--
Phosphoric Acid up to 85%	--	--	--
Seawater	++	+	++
Sulphuric Acid up to 10%	+	-	-
Tannic Acid	++	+	++
Toluene	--	--	--
Treacle	++	++	++

Key: ++ excellent consistency
 + good consistency
 - sufficient consistency
 -- insufficient consistency

RunRight[®]

by **Lovejoy**

TENSIONER DEVICES



WARNING

Failure to observe the following warnings could cause the power transmission product to break and parts to be thrown with sufficient force to cause serious injury or death.

Selection. Do not exceed catalog ratings. Refer to the Lovejoy catalog for proper selection, sizing, horsepower, torque range, and speed range of these products.

Installation. Proper maintenance, handling, and shop practices are critical. Follow all installation instructions included with the product and provided by your equipment manufacturer, and all applicable federal, state, and local regulations concerning the safe operation and maintenance of manufacturing equipment. Do not weld the products in this catalog as excess heat will effect or destroy the rubber or polymer materials.

Operation. Avoid sudden shock loads during start up and operation.

Do not operate a coupling assembly with improper alignment or bolt torque or with damaged or worn elastomeric elements. Inspect the assembly for these conditions shortly after initial operation and periodically thereafter.

The coupling assembly should operate quietly and smoothly. If the coupling assembly vibrates or makes a beating sound, shut down the equipment immediately and recheck the alignment.

Disclaimer

This catalog is provided solely to give you analysis tools and data to assist you in your product selection. Product performance is affected by many factors beyond the control of Lovejoy. Therefore, you must validate the suitability and feasibility of all product selections for your applications.

Lovejoy does not manufacture or sell power transmission products for elevators, man lifts, or other devices that carry people. We make no representation or warranty concerning such uses disclaim all liability for harm that might result from the use of our products in those applications.

Lovejoy products are sold subject to Lovejoy terms and conditions of sale (view at www.lovejoy-inc.com/resources), which include our limited warranty and remedy. Please consult with your Lovejoy engineer for more information and assistance.

Every reasonable effort has been made to ensure the accuracy of the information in this writing, but no liability is accepted for errors, omissions or for any other reason.

If you have any questions, contact the Lovejoy Engineering Department at 1-630-852-0500 or email apleng@lovejoy-inc.com.

Tensioner Devices



Inside this section:

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WARNING

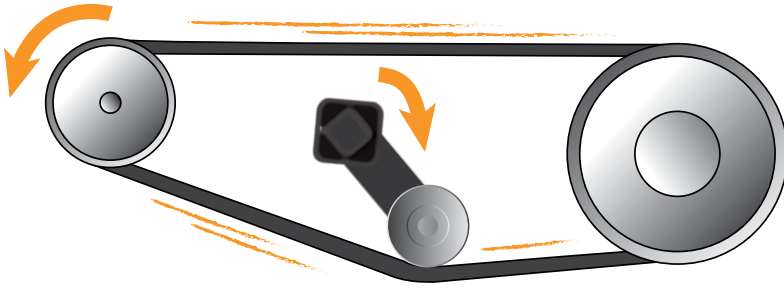
Failure to follow these cautions could create a risk of injury.

You must refer to page 8 for Important Safety Instructions and Precautions for the selection and use of these products.
Failure to follow the instructions and precautions can result in severe injury or death.

Tensioner Devices Usage Illustrations

RunRight[®]
by **Lovejoy**

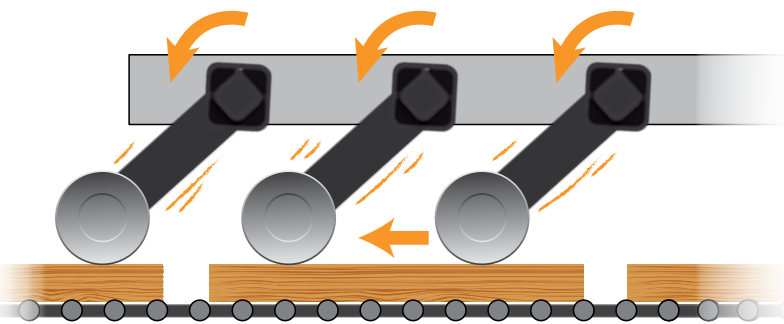
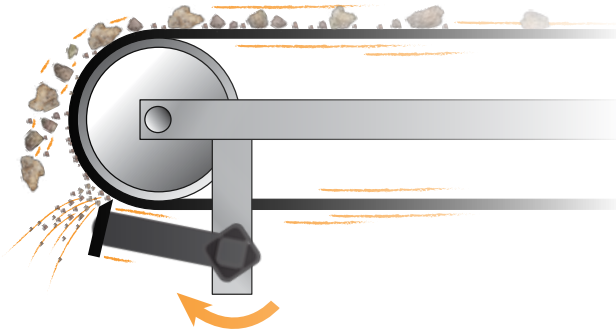
TENSIONER DEVICES



Low maintenance solution that provides a constant torque resulting in a high belt service life.



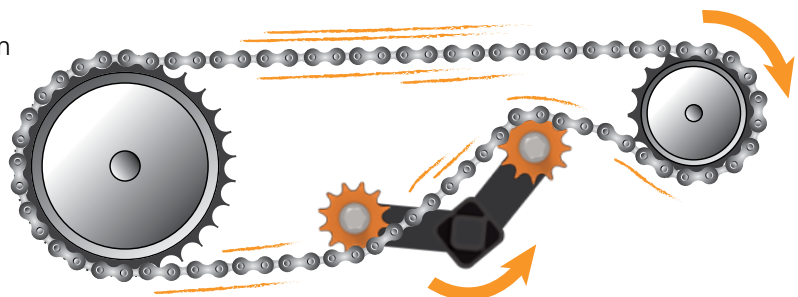
Effectively dampens belt vibrations by applying constant pressure that will continually clean conveyor belts and compensate for scraper wear.



Accurately transports product by applying constant pressure. Offers a maintenance-free and cost-effective solution while providing a long service life.



Double-arm design provides quiet dual slack compensation and diminishes deterioration on rollers and bearing while dissipating system vibrations.



RunRight® Tensioner Device Selection Guide

RunRight Model		Application Notes		Working Temperature
Tensioner Devices				
	RT	Standard Tensioner	For most Applications Powder Metal / Cast Iron Housings • Cast Iron Arm & Inner Square • Painted Black Finish • Tensys™ 10 Natural Rubber Inserts	-40° to 180°F (-40° to 80°C)
	RT N	Oil Resistant	For Oily Applications Powder Metal / Cast Iron Housings • Cast Iron Arm & Inner Square • Galvanized Zinc Finish • Tensys™ 20 Synthetic Rubber Inserts • Marked with yellow dot	-22° to 180°F (-30° to 80°C)
	RT H	Heat Resistant	For Applications in excess of 180°F (80°C) Powder Metal / Cast Iron Housings • Cast Iron Arm & Inner Square • Painted Black Finish • Tensys™ 40 Hi-Temp. Rubber Inserts • Marked with red dot	180° to 250°F (80° to 120°C)
	RT R	Steel Reinforced lever arm	For use on IC Engines and Compressors Powder Metal / Cast Iron Housings • Fully Welded Steel Arm & Inner Square • Painted Black Finish • Tensys™ 10 Natural Rubber Inserts. • Marked with white dot	
	RT SS	Stainless Steel (INOX)	For use in food and pharmaceutical industries Cast Stainless Steel Housings & Arms • Natural (uncoated) Finish • Tensys™ 10 Natural Rubber Inserts	
	RT F	Front Mount Tensioner	For applications where it is impossible to access standard mounting bolt Powder Metal / Cast Iron Housings • Cast Iron Arm & Inner Square • Painted Black Finish • Tensys™ 10 Natural Rubber Inserts	
	RT B	Double Arm Tensioner	For the tensioning of very long chain and belt drives Powder Metal / Cast Iron Housings • Cast Iron Arm & Inner Square • Painted Black Finish • Tensys™ 10 Natural Rubber Inserts	
	RT T	Dual Arm Tensioner	For applications requiring very high tensioning forces Cast Iron Housings • Fully Welded Steel Arm & Inner Square • Painted Black Finish • Tensys™ 10 Natural Rubber Inserts	
	RT P	Plastic Tensioner	For light duty applications Plastic Arms & Base • Dual Arm Design • Tensys™ 10 Natural Rubber Inserts	-22° to 120°F (-30° to 50°C)
	RT M	Large Tensioner	For very large HD applications Dual Arm Design • Wide Range of Rollers and Sprockets Available • Based on the tensioning Motor Base frame • Tensys™ 10 Natural Rubber Inserts	-40° to 180°F (-40° to 80°C)
Chain Drive Accessories				
	Sprocket Wheel Set		Allows easy & accurate chain alignment Permanently lubricated Ball Bearings • Sets include idler hardware	
	Sprocket Wheel Only			
	Chain Rider Set		Allows easy & accurate chain alignment For smooth & quiet chain tensioning • Maximum allowed chain speed 1.5 m/sec. • Material: POM-H	
	Chain Rider Only			
Belt Drive Accessories				
	Tensioning Roller		Primarily uses as backside belt tensioner Also used as a material feed hold-down • Available in Plastic or Aluminum • Permanently lubricated Ball Bearings	-31° to 210°F (-35° to 100°C)
	Steel Idler Pulleys		Pulleys for inside and backside tensioning of V-belts Flat Belt or Chain Idler Pulley for backside tensioning • Permanently lubricated Ball Bearings	-40° to 210°F (-40° to 100°C)

TENSIONER DEVICES

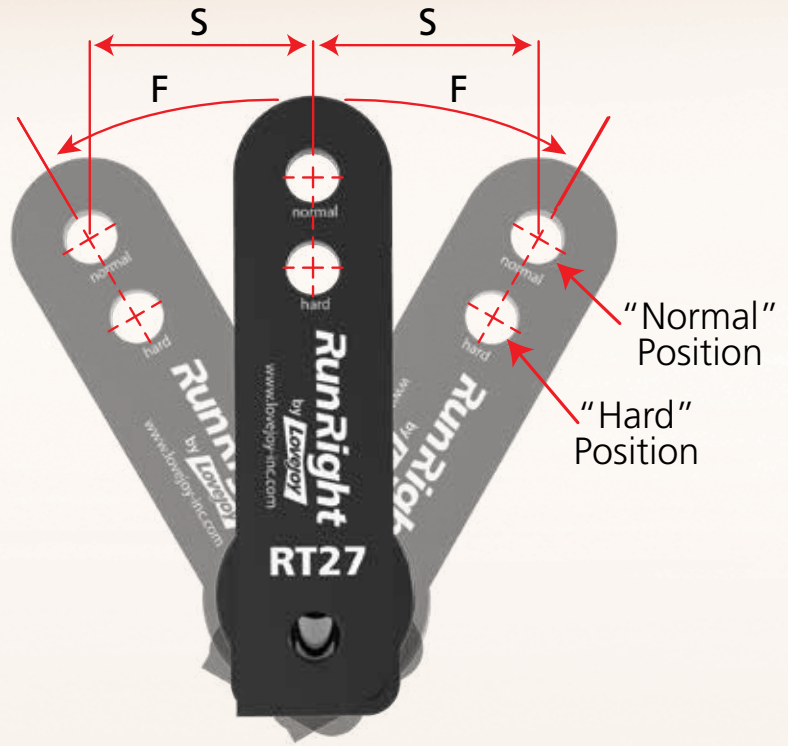
RunRight® Tensioner Devices

Tensioner Technology

Install RunRight tensioners on a rigid, flat and clean machine surface using the mounting bolt provided. The frictional contact between the tensioner housing and the machine surface is usually sufficient for proper installation. If the surface of the machine is uneven or highly corroded, a locking pin can be used at the positioning notch for a secure connection to a machine's irregular surface.

Tensioning Force

The tensioning force of the RunRight tensioner can be continuously adjusted. The maximum installation tensioning torque is 30° from the neutral position. The tensioning forces for the RT, RT N, RT R, RT F and RT SS using the normal hole on the tensioner arm for the idler sprocket, chain and roller accessories are in the chart below. When using the hard hole on the tensioner arm, the tensioning force will increase by approximately 25% from what is shown in this chart.



Tensioner Size	Tensioning Force @ "Normal" Position											
	10° Pre-Tensioning Angle				20° Pre-Tensioning Angle				30° Pre-Tensioning Angle			
	F (n)	F (lbs)	S (mm)	S (in)	F (n)	F (lbs)	S (mm)	S (in)	F (n)	F (lbs)	S (mm)	S (in)
11	15	3.4	14	0.6	40	9.0	28	1.1	80	18.0	40	1.6
15	25	5.6	17	0.7	65	14.6	34	1.3	135	30.3	50	2.0
18	75	16.9	17	0.7	180	40.5	34	1.3	350	78.7	50	2.0
27	150	33.7	22	0.9	380	85.4	44	1.7	800	179.8	65	2.6
38	290	65.2	30	1.2	730	164.1	60	2.4	1500	337.2	87	3.4
45	500	112.4	39	1.5	1300	292.3	78	3.1	2600	584.5	112	4.4
50	750	168.6	43	1.7	2150	483.3	86	3.4	4200	944.2	125	4.9

Notes: ■ RT SS40 same tensioner force as RT 38. ■ RT H tensioners approximately 40% lower tensioning forces as the standard RT Tensioners.
 ■ Mounting accessories into the "Hard" Position results in approximately 25% Higher Tensioning force over "Normal" Position.

Mounting Bolt Tightening Torque		
Size	Grade 8.8	Grade 12.9 shipped with RT F
M6	10 Nm	17 Nm
M8	25 Nm	41 Nm
M10	49 Nm	83 Nm
M12	86 Nm	145 Nm
M16	210 Nm	355 Nm
M20	410 Nm	690 Nm
M24	750 Nm	—

Rubber Characteristics				
Rubber Compounds	Torque & Load Factor*	Operating Temperature F° (C°)	Rubber Type	Rubber Characteristics
Tensys™ 10	1.0	-40° to 180° (-40° to 80°)	Natural	Standard
Tensys™ 20	approximately 1.0	-22° to 195° (-30° to 90°)	Neoprene	Oil Resistant
Tensys™ 40	approximately 0.6	180° to 250° (80° to 120°)	EPDM	High Temperature Resistant

Note: ■ *Factor in relation to torque & loads shown on standard selection charts.

TENSIONER DEVICES

Tensioner Devices

RT, RT N, RT H, RT R (Imperial)



RunRight Tensioners Type RT, RT N, RT H, RT R

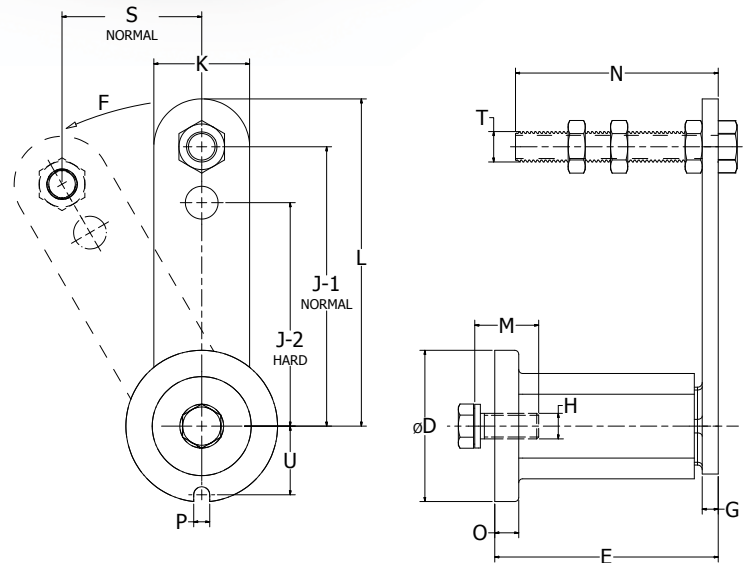
RunRight RT tensioners offer a full range of belt and chain tensioners. They are manufactured with the standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.

RunRight RT N tensioners are manufactured with galvanized powder metal parts and are designed for outdoor or oily applications. The Tensys 20 neoprene inserts are oil resistant and can be used for applications operating within a -22° to 195°F (-30° to 90°C) temperature range.

RunRight RT H tensioners enable a reduction of tensioning force of up to 40% when compared to the RT and RT-N tensioners. The Tensys 40 heat resistant rubber inserts are ideal for applications operating within a 180° to 250°F (80° to 120°C) temperature range.

RunRight RT R tensioners are for use on internal combustion engines and compressors. They are manufactured with powder metal or cast iron housings, fully welded steel arms and inner square, come with the standard Tensys 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.

The RT 11 to RT 27 housings are manufactured from powder metal. The RT 38 and RT 45 housings are manufactured from cast iron, the RT 50 housing is manufactured from steel. All arms and inner squares are steel castings or weldments. All of the tensioners include a zinc plated mounting screw and locking washer.



TENSIONER DEVICES

Tensioners Type RT, RT N, RT H, RT R (includes Imperial Idler Hardware)															
UPC #	Type	Dimensions - Inches													
		D	E	G	H	J-1	J-2	K	L	M	N	O	P	T	U
68514417451	RT 11	1.38	2.01	0.20	M6	3.15	2.36	0.79	3.54	20mm	2.00	0.24	0.31	3/8-16	0.65
68514426709	RT N11														
68514417452	RT 15	1.77	2.52	0.20	M8	3.94	3.15	0.98	4.43	25mm	2.00	0.31	0.33	1/2-13	0.82
68514425597	RT N15														
68514457517	RT H15														
68514483883	RT R15														
68514417453	RT 18	2.28	3.11	0.24	M10	3.94	3.15	1.18	4.53	30mm	2.50	0.41	0.33	1/2-13	1.00
68514417490	RT N18														
68514453285	RT H18														
68514483881	RT R18														
68514417454	RT 27	3.07	4.25	0.31	M12	5.12	3.94	1.97	6.10	40mm	3.50	0.59	0.41	1/2-13	1.35
68514417491	RT N27														
68514453287	RT H27														
68514481601	RT R27														
68514417455	RT 38	3.74	5.51	0.39	M16	6.89	5.51	2.36	8.07	40mm	5.00	0.59	0.49	3/4-10	1.65
68514417492	RT N38														
68514453289	RT H38														
68514417456	RT 45	4.53	7.87	0.47	M20	8.86	7.09	2.76	10.24	50mm	6.00	0.71	0.49	3/4-10	2.05
68514417493	RT N45														
68514453291	RT H45														
68514453341	RT 50	5.12	8.27	0.79	M24	9.84	7.87	3.15	11.42	60mm	6.00	0.79	0.67	3/4-10	2.26
68514463652	RT N50														
68514457519	RT H50														

Note: ■ See pages 11 and 12 for additional product and performance data. See Page 12 for "F" and "S" Dimensions.

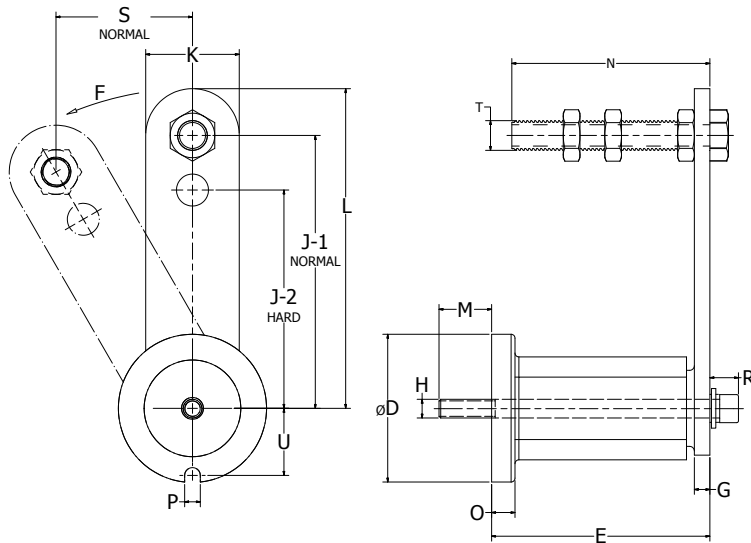
Tensioner Devices

RT F (Imperial)



RunRight Tensioners Type RT F (Front Mount)

RunRight RT F tensioners are designed for front mounting applications where access to back side or rear mounting surfaces is not possible. A single threaded hole is required to mount these tensioners. These tensioners include a special mounting screw and spacer bushing. The housings are manufactured from powder metal, cast iron or steel. All arms and inner squares are cast steel or steel weldments. They come with the standard Tensys™ 10 rubber inserts, and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



TENSIONER DEVICES

Tensioners Type RT F (includes Imperial Idler Hardware)

UPC #	Type	Dimensions - Inches														
		D	E	G	H	J-1	J-2	K	L	M	N	O	P	R	T	U
68514453273	RT F15	1.77	2.52	0.20	M6	3.94	3.15	0.98	4.43	0.47	2.00	0.31	0.33	0.39	1/2-13	0.82
68514453275	RT F18	2.28	3.11	0.24	M8	3.94	3.15	1.18	4.53	0.71	2.50	0.41	0.33	0.43	1/2-13	1.00
68514453277	RT F27	3.07	4.25	0.31	M10	5.12	3.94	1.97	6.10	0.67	3.50	0.59	0.41	0.59	1/2-13	1.35
68514453279	RT F38	3.74	5.51	0.39	M12	6.89	5.51	2.36	8.07	0.63	5.00	0.59	0.49	0.67	3/4-10	1.65
68514453281	RT F45	4.53	7.87	0.47	M16	8.86	7.09	2.76	10.24	1.26	6.00	0.71	0.49	0.94	3/4-10	2.05
68514453283	RT F50	5.12	8.27	0.79	M20	9.84	7.87	3.15	11.42	0.90	6.00	0.79	0.67	1.06	3/4-10	2.26

Notes: ■ Front Mounting versions of RunRight Series RT N, RT H and RT SS Tensioners are available for special requests.
 ■ See pages 11 and 12 for additional product and performance data. See Page 12 for "F" and "S" dimensions.

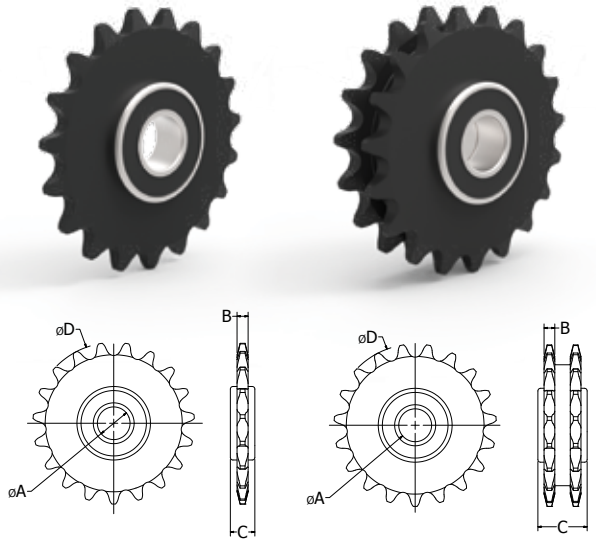
RunRight Single and Double Strand Sprockets

Single Strand Sprockets

UPC #	Type	Dimensions - Inches					# Teeth	Use with Tensioner Size
		A	B	C	D			
68514417458	25BB20	0.38	0.11	0.38	1.72	20	RT 11	
68514417459	35BB19	0.50	0.17	0.44	2.48	19	RT 15/18	
68514417460	40BB18	0.50	0.28	0.44	3.14	18	RT 15/18	
68514417461	41BB18	0.50	0.23	0.44	3.14	18	RT 15/18	
68514417462	50BB17	0.50	0.34	0.44	3.72	17	RT 27	
68514417463	60BB15	0.50	0.46	0.44	3.98	15	RT 27	
68514417464	80BB12	0.75	0.58	0.44	4.34	12	RT 38	
68514417465	100BB11	0.75	0.68	0.69	5.00	11	RT 45	
68514417466	120BB9	0.75	0.92	1.00	5.02	9	RT 45	

Double Strand Sprockets

68514417467	D35BB19	0.50	0.16	0.75	2.48	19	RT 15/18
68514417468	D40BB18	0.50	0.28	0.88	3.14	18	RT 18
68514417469	D50BB17	0.50	0.33	0.88	3.72	17	RT 27
68514417470	D60BB15	0.50	0.46	0.87	3.98	15	RT 27
68514417471	D80BB12	0.75	0.58	1.20	4.34	12	RT 38
68514443442	D100BB11	0.75	0.68	1.90	5.00	11	RT 45



Tensioner Devices

RT, RT N, RT H, RT SS (Metric)



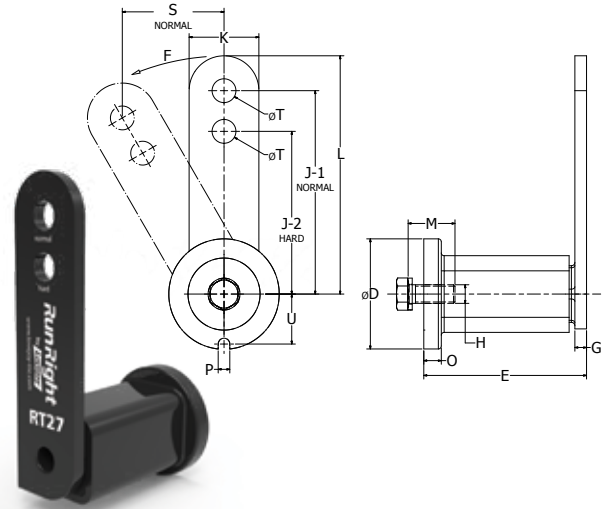
RunRight Tensioners Type RT, RT N, RT H (Metric)

RunRight RT tensioners offer a full range of belt and chain tensioners. They are manufactured with the standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.

RunRight RT N tensioners are manufactured with galvanized powder metal parts and are designed for outdoor or oily applications. The Tensys 20 neoprene inserts are oil resistant and can be used for applications operating within a -22° to 195°F (-30° to 90°C) temperature range.

RunRight RT H tensioners enable a reduction of tensioning force of up to 40% when compared to the RT and RT N tensioners. The Tensys 40 heat resistant rubber inserts are ideal for applications operating within a 180° to 250°F (80° to 120°C) temperature range.

The housings are manufactured from powder metal, cast iron or steel. All arms and inner squares are cast steel or steel weldments. All of the tensioners include a zinc plated mounting screw and locking washer.



TENSIONER DEVICES

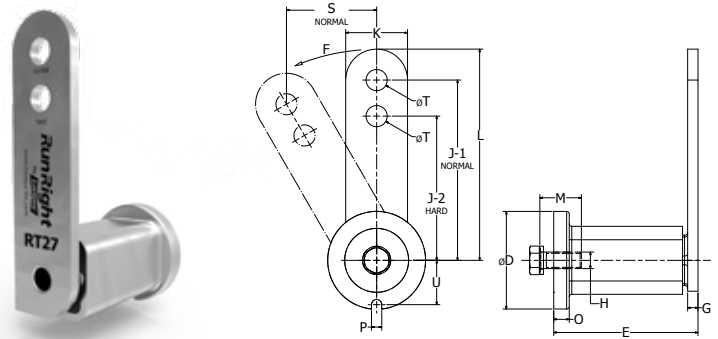
Tensioners Type RT, RT N, & RT H for Metric Idler Hardware

UPC #	Type	Dimensions - Millimeters												
		D	E	G	H	J-1	J-2	K	L	M	O	P	T	U
68514485264	RT 11-M	35	51	5	M6	80	60	20	90.0	20	6.0	8.0	8.5	16.5
68514485257	RT N11-M													
68514485265	RT 15-M													
68514485258	RT N15-M	45	64	5	M8	100	80	25	112.5	25	8.0	8.5	10.5	20.8
68514485271	RT H15-M													
68514485266	RT 18-M													
68514485259	RT N18-M	58	79	7	M10	100	80	30	115.0	30	10.5	8.5	10.5	25.3
68514485272	RT H18-M													
68514485267	RT 27-M													
68514485260	RT N27-M	78	108	8	M12	130	100	50	155.0	40	15.0	10.5	12.5	34.3
68514485273	RT H27-M													
68514485268	RT 38-M													
68514485261	RT N38-M	95	140	10	M16	175	140	60	205.0	40	15.0	12.5	20.5	42.0
68514485274	RT H38-M													
68514485269	RT 45-M													
68514485262	RT N45-M	115	200	12	M20	225	180	70	260.0	50	18.0	12.5	20.5	52.0
68514485275	RT H45-M													
68514485270	RT 50-M													
68514485263	RT N50-M	130	210	20	M24	250	200	80	290.0	60	20.0	17.0	20.5	57.5
68514485276	RT H50-M													

Note: ■ See pages 11 and 12 for additional product and performance data. See page 12 for "F" and "S" dimensions.

RunRight Tensioners Type RT SS

RunRight RT SS tensioners are for use in the food and pharmaceutical industries. They are manufactured with cast stainless steel housings, arms and inner square. They come with the standard Tensys 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Tensioners Type RT SS (INOX) (Stainless Steel) for Metric Idler Hardware

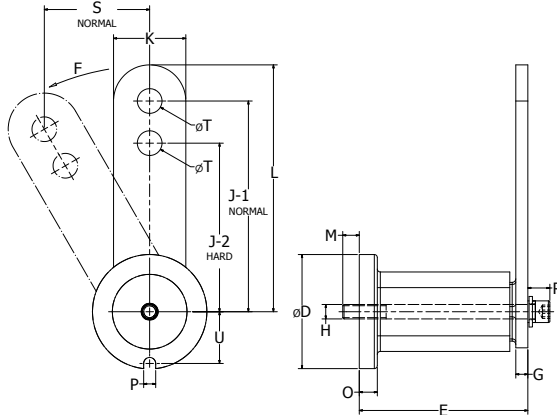
UPC #	Type	Dimensions - Millimeters												
		D	E	G	H	J-1	J-2	K	L	M	O	P	T	U
68514485681	RT SS11	35	51	5	M6	80	60	20	90.0	20	6.0	8.0	8.5	16.5
68514463014	RT SS15	45	64	5	M8	100	80	25	112.5	25	8.0	8.5	10.5	20.8
68514463015	RT SS18	58	79	7	M10	100	80	30	115.0	30	10.5	8.5	10.5	25.3
68514463016	RT SS27	78	108	8	M12	130	100	50	155.0	40	15.0	10.5	12.5	34.3
68514463017	RT SS40	95	140	10	M16	175	140	60	205.0	40	15.0	12.5	20.5	41.5

Tensioner Devices

RT F, RT B (Metric)

RunRight Tensioners Type RT F (Front Mount)

RunRight RT F tensioners are designed for front mounting applications where access to back side or rear mounting surfaces is not possible. A single threaded hole is required to mount these tensioners. The housings are manufactured from powder metal, cast iron or steel. All arms and inner squares are cast steel or steel weldments. They come with the standard Tensys™ 10 rubber inserts, and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



TENSIONER DEVICES

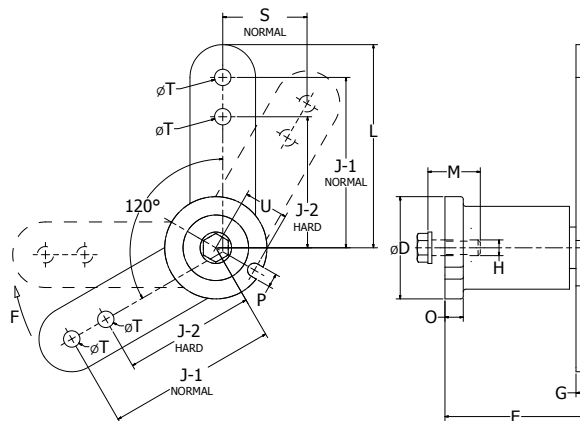
Tensioners Type RT F (for use with metric Idler Hardware)

UPC #	Type	Dimensions - Millimeters													
		D	E	G	H	J-1	J-2	K	L	M	O	P	R	T	U
68514485026	RT F15-M	45	64	5	M6	100	80	25	112.5	12	8.00	8.5	10	10.5	20.8
68514485027	RT F18-M	58	79	7	M8	100	80	30	115.0	18	10.5	8.5	11	10.5	25.3
68514485028	RT F27-M	78	108	8	M10	130	100	50	155.0	17	15.0	10.5	15	12.5	34.3
68514485029	RT F38-M	95	140	10	M12	175	140	60	205.0	16	15.0	12.5	17	20.5	42.0
68514485030	RT F45-M	115	200	12	M16	225	180	70	260.0	32	18.0	12.5	24	20.5	52.0
68514485031	RT F50-M	130	210	20	M20	250	200	80	290.0	23	20.0	17.0	27	20.5	57.5

Note: ■ See pages 11 and 12 for additional product and performance data. See page 12 for "F" and "S" dimensions.

RunRight Tensioners Type RT B

RunRight RT B tensioners are designed for longer length chain drive applications. The housings are manufactured from powder metal, cast iron or steel. All arms and inner squares are cast steel or steel weldments. They come with the standard Tensys 10 rubber inserts, and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Tensioners Type RT B (for use with metric Idler Hardware)

UPC #	Type	Dimensions - Millimeters												
		D	E	G	H	J-1	J-2	K	L	M	O	P	T	U
68514463729	RT B18	58	78	6	M10	100	80	30	115	30	35	10.5	10.5	25.3
68514463730	RT B27	78	108	8	M12	130	100	50	155	40	52	10.5	12.5	34.3

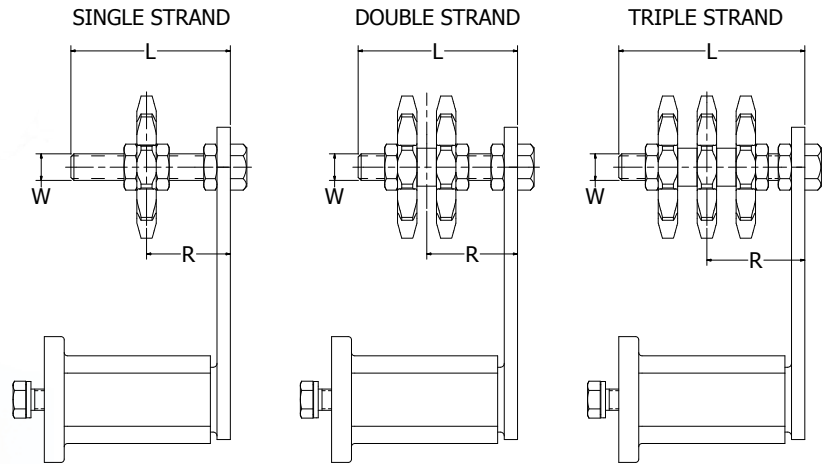
Note: ■ See pages 11 and 12 for additional product and performance data. See page 12 for "F" and "S" dimensions.

Tensioner Devices

Accessories - Sprockets

RunRight Idler Sprockets

Ball Bearing Idler Sprockets are available for ANSI #35 through #120 roller chains for single, double and triple strand drives. The bearings are self-lubricating and double sealed for longer life. Available in sets (includes idler bolt & nuts) and as individual components.



TENSIONER DEVICES

ANSI Single Strand Sprocket Sets

UPC #	Type	Pitch	ANSI Chain	Dimensions - Millimeters				Tensioner Size
				W	L	R Adjusting Range	# Teeth	
68514484965	25BB20 M8 SET	1/4"	#25	M8	45	18 - 36	20	RT 11-M
68514484966	35BB19 M10 SET	3/8"	#35	M10	55	22 - 43	19	RT 15-M
68514484967	40BB18 M10 SET	1/2"	#40	M10	55	23 - 44	18	RT 15/18-M
68514484968	41BB18 M10 SET	1/2"	#41	M10	55	23 - 44	18	RT 15/18-M
68514484969	50BB17 M12 SET	5/8"	#50	M12	80	27 - 65	17	RT 27-M
68514484970	60BB15 M12 SET	3/4"	#60	M12	80	40 - 80	15	RT 27-M
68514484971	60BB15 M20 SET	3/4"	#60	M20	100	40 - 80	15	RT 38-M
68514484972	80BB12 M20 SET	1"	#80	M20	100	40 - 80	12	RT 38-M
68514484973	100BB11 M20 SET	1-1/4"	#100	M20	100	40 - 80	11	RT 45-M
68514484974	120BB9 M20 SET	1-1/2"	#120	M20	140	40 - 120	9	RT 45-M

ANSI Double Strand Sprocket Sets

68514484975	D35BB19 M10 SET	3/8"	#35	M10	55	27 - 39	19	RT 15-M
68514484976	D40BB18 M10 SET	1/2"	#40	M10	55	30 - 37	18	RT 15/18-M
68514484978	D50BB17 M12 SET	5/8"	#50	M12	80	36 - 57	17	RT 27-M
68514484979	D60BB15 M12 SET	3/4"	#60	M12	80	37 - 56	15	RT 27-M
68514484980	D60BB15 M20 SET	3/4"	#60	M20	120	50 - 90	15	RT 38-M
68514484981	D80BB12 M20 SET	1"	#80	M20	120	55 - 84	12	RT 38-M
68514484982	D100BB11 M20 SET	1-1/4"	#100	M20	140	60 - 102	11	RT 45-M
68514484983	D120BB9 M20 SET	1-1/2"	#120	M20	140	65 - 97	9	RT 45-M

ANSI Triple Strand Sprocket Sets

68514484984	T35BB19 M10 SET	3/8"	#35	M10	70	33 - 48	19	RT 18-M
68514484985	T40BB18 M10 SET	1/2"	#40	M10	80	41 - 51	18	RT 27-M
68514484987	T50BB17 M12 SET	5/8"	#50	M12	80	43 - 50	17	RT 27-M
68514484988	T60BB15 M12 SET	3/4"	#60	M12	120	56 - 84	15	RT 27-M
68514484989	T60BB15 M20 SET	3/4"	#60	M20	120	59 - 80	15	RT 38-M
68514484990	T80BB12 M20 SET	1"	#80	M20	160	74 - 108	12	RT 45-M
68514484991	T100BB11 M20 SET	1-1/4"	#100	M20	160	78 - 105	11	RT 45/50-M
68514484992	T120BB9 M20 SET	1-1/2"	#120	M20	180	90 - 111	9	RT 45/50-M

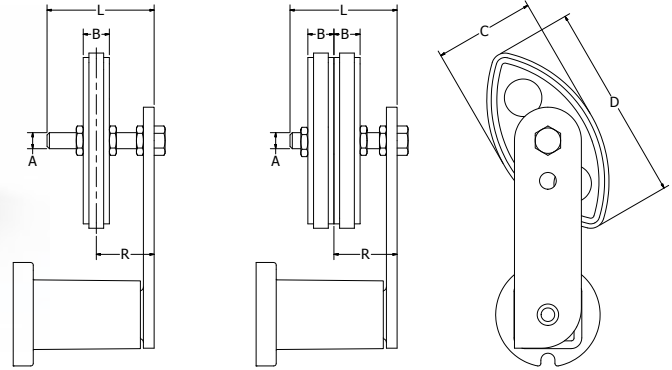
Tensioner Devices

Accessories - Chain Drives



RunRight Chain Riders

The RunRight chain rider is made from high strength industrial polymers and are shaped for use on either side of the rider. For use with chain speeds of 5 ft/sec or less, the chain riders provide an economical and quieter solution than sprockets. Available in sets (includes idler bolt and nuts) or individually.



TENSIONER DEVICES

ANSI Single Strand Chain Rider Sets

UPC #	Type	Pitch	ANSI Chain	Dimensions - Millimeters					Adjusting Range R		Tensioner Size	
				A	B	C	D	L				
68514463941	RCG 3/8-8AS SET	3/8"	#35	M8	10.0	40	73	45	19	-	34	RT 11
68514457726	RCG 3/8-11AS SET	1/2"	#41	3/8"	10.0	40	73	2"	19	-	34	RT 11
68514453094	RCG 1/2-10AS SET	1/2"	#40	M10	13.9	50	96	55	23	-	41	RT 15 & RT 18
68514443499	RCG 5/8-10AS SET	5/8"	#50	M10	16.6	65	126	55	24	-	39	RT 15 & RT 18
68514443387	RCG 3/4-12AS SET	3/4"	#60	M12	19.5	75	148	80	30	-	61	RT 27

ANSI Double Strand Chain Rider Sets

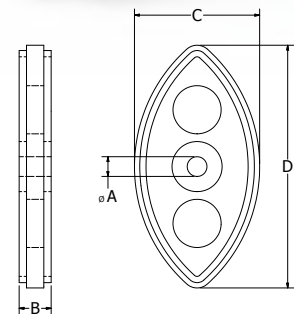
UPC #	Type	Pitch	ANSI Chain	Dimensions - Millimeters					Adjusting Range R		Tensioner Size	
				A	B	C	D	L				
68514463653	RCG 3/8-8AD SET	3/8"	#35	M8	10.0	40	73	45	25	-	30	RT 11
68514463654	RCG 1/2-10AD SET	1/2"	#40	M10	13.9	50	96	55	30	-	34	RT 15 & RT 18
68514463655	RCG 5/8-10AD SET	5/8"	#50	M10	16.6	65	126	70	34	-	46	RT 15 & RT 18
68514463656	RCG 3/4-12AD SET	3/4"	#60	M12	19.5	75	148	80	40	-	52	RT 27

ANSI Chain Riders Only - Metric Bore

UPC #	Type	Pitch	ANSI CHAIN	Dimensions - Millimeters				For Idler Bolt	Tensioner Size
				A	B	C	D		
68514485104	RCG 3/8-8AS	3/8"	#35 / #41	8.2	10.0	40	73	M8	RT 11
68514485105	RCG 1/2-10AS	1/2"	#40	10.2	13.9	50	96	M10	RT 15 & RT 18
68514485106	RCG 5/8-10AS	5/8"	#50	10.2	16.6	65	126	M10	RT 15 & RT 18
68514485107	RCG 3/4-12AS	3/4"	#60	12.2	19.5	75	148	M12	RT 27

ANSI Chain Riders Only - Inch Bore

UPC #	Type	Pitch	#	Dimensions - Millimeters				For Idler Bolt	Tensioner Size
				A	B	C	D		
68514485253	RCG 3/8-3/8AS	3/8"	#35 / #41	9.5	10.0	40	73.0	3/8"	RT 11
68514485254	RCG 1/2-1/2AS	1/2"	#40	12.7	13.9	50	96.0	1/2"	RT 15 & RT 18
68514485255	RCG 5/8-1/2AS	5/8"	#50	12.7	16.6	65	126.0	1/2"	RT 15 & RT 18
68514485256	RCG 3/4-1/2AS	3/4"	#60	12.7	19.5	75	148.0	1/2"	RT 27
68514483303	RCG 1-3/4AS	1"	#80	19.1	25.4	90	183.0	3/4"	RT 38
68514480055	RCG 1-1/4-3/4AS	1-1/4"	#100	19.1	31.8	111	228.6	3/4"	RT 38 & RT 45

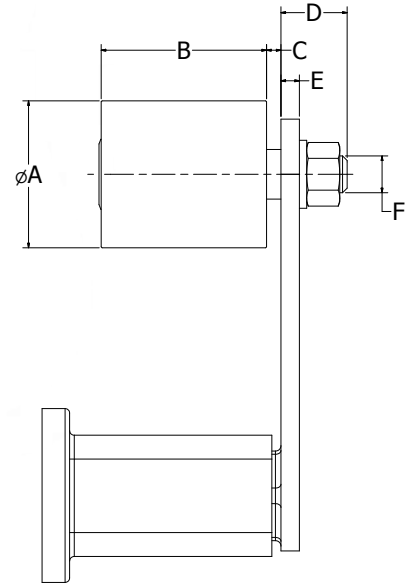
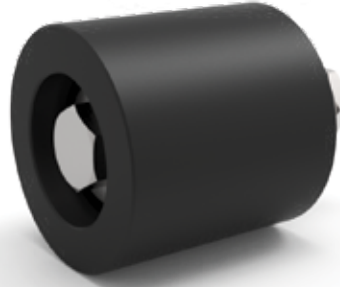


Tensioner Devices

Accessories - Belt Drives

RunRight Tensioning Rollers

The RunRight tensioning roller is primarily used as a back-side belt tensioner. The rollers are available in either plastic or aluminum. The bearings are self-lubricating for longer life. The rollers can be used for applications operating within a -31° to 212°F (-35° to 100°C) temperature range.



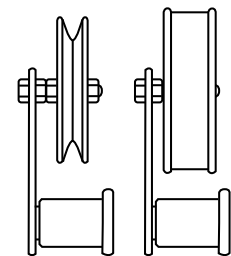
TENSIONER DEVICES

Plastic Rollers									
UPC #	Type	Max RPM	Dimensions - Millimeters						Use with Tensioner Size
			A	B	C	D	E	F	
68514463115	RPR 11	8000	30	35	2.5	14.5	5	M8	RT 11-M
68514453028	RPR 15/18	8000	40	45	6	18	8	M10	RT 15 & RT 18-M
68514443023	RPR 27	6000	60	60	7	20	8	M12	RT 27-M
68514457573	RPR 38	5000	80	90	7.5	27.5	10	M20	RT 38-M
68514457574	RPR 45	4500	90	130	10	28	20	M20	RT 45-M

Aluminum Rollers									
UPC #	Type	Max RPM	Dimensions - Millimeters						Use with Tensioner Size
			A	B	C	D	E	F	
68514484323	RAR 11-AL	15000	30	35	2.5	14.5	5	M8	RT 11-M
68514484324	RAR 15/18-AL	15000	40	45	6	18	7	M10	RT 15 & RT 18-M
68514484325	RAR 27-AL	12000	60	60	7	20	8	M12	RT 27-M
68514484326	RAR 38-AL	10000	80	90	8	25	10	M20	RT 38-M
68514484327	RAR 45-AL	8000	90	135	10	28	16	M20	RT 45-M

RunRight Steel Idler Pulleys

The RunRight steel idler pulley is used for the “inside” tensioning of V-belts. The bearings are self-lubricating for longer life. The rollers can be used for applications operating within a -40° to 212°F (-40° to 100°C) temperature range.



Flat Belt / Quiet Chain Idler Pulley						
UPC #	Model Number	Overall Width in	Flat Surface Width in	Pulley OD in	Bore in	Length Through Bore in
68514417472	CB4	1.44	1	4.75	0.500	0.719

V-Belt Idler Pulleys						
UPC #	Pulley Number	Belt Size	Pitch in	Pulley OD in	Bore in	Length Through Bore in
68514417473	A3	A	2.50	3.00	0.375	0.844
68514417474	B5	B-C	3.75	5.06	0.500	0.719
68514417475	B7	B-C	6.00	7.31	0.500	0.719



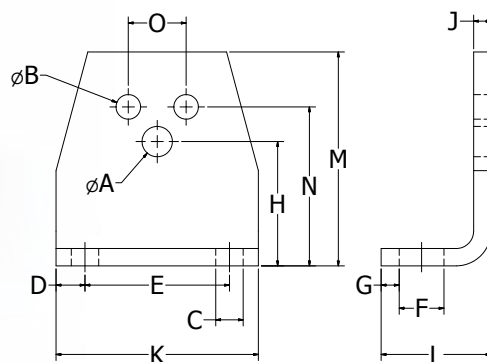
Tensioner Devices

Accessories - RLB Brackets, Safety Sockets



RunRight RLB Brackets

The RunRight RLB Bracket offers an easy assembly to equipment for the RT tensioners by attaching to the housing using the mounting bolt. The base of the bracket can be positioned in either direction.

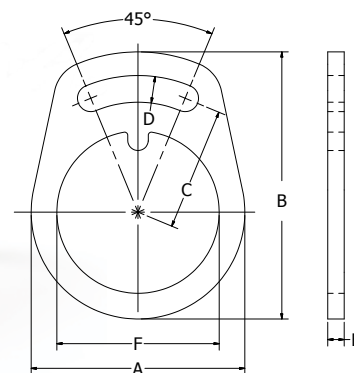


TENSIONER DEVICES

RLB Brackets																	
RLB Bracket		Fit for RT Tensioners			Fit for RSS A, RSR A, and RSFA				Dimensions - Millimeters								
UPC #	Type	RT Size	Dimensions - Millimeters		Element Size	Dimensions - Millimeters			Dimensions - Millimeters								
			A	H		B	N	O	C	D	E	F	G	J	K	L	M
68514425200	RLB 11-15	11	6.5	27	15	5.5	35	10	7.0	7.5	30	13.0	11.5	4	45	30	46
68514425201	RLB 15-18	15	8.5	34	18	6.5	44	12	7.0	7.5	40	13.0	13.5	5	55	32	58
68514425202	RLB 18-27	18	10.5	43	27	8.5	55	20	9.5	10.0	50	15.5	16.5	6	70	38	74
68514425203	RLB 27-38	27	12.5	57	38	10.5	75	25	11.5	12.5	65	21.5	21.0	8	90	52	98
68514425204	RLB 38-45	38	16.5	66	45	12.5	85	35	14.0	15.0	80	24.0	21.0	8	110	55	116
68514425205	RLB 45-50	45	20.5	80	50	12.5	110	40	18.0	20.0	100	30.0	26.0	10	140	66	140

RunRight Safety Sockets

The RunRight Safety Socket is used for positioning the tensioner and locking it into place. It also provides the ability to adjust the tensioner angle in the future.



Safety Sockets								
UPC #	Type	For Size RT	Dimensions - Millimeters					
			A	B	C	D	E	F
68514483288	RLS 27	27	104	130	60	13	8	79.0
68514483289	RLS 38	38	128	161	75	17	10	96.5

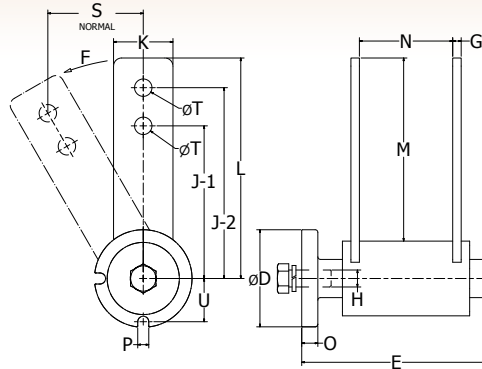
Tensioner Devices

RT T, RT P, RT M



RunRight Tensioners Type RT T (Double Arm)

RunRight RT T tensioners are designed for applications requiring very high tensioning forces. They have a fully welded steel arm and inner square. They are manufactured with standard Tensys™ 10 rubber inserts, and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



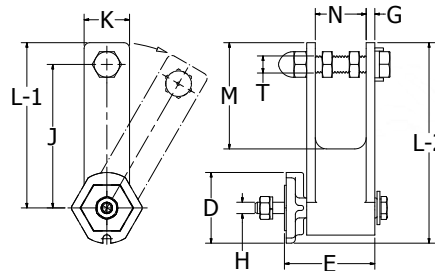
Tensioners Type RT T (Dual Arm Tensioner)

UPC #	Type	Dimensions - Millimeters											
		D	E	G	H	J-1	J-2	K	L	M	N	O	T
68514479412	RT T45	115	223	10	M20	180	225	70	260	215	110.00	19	1/4-20
68514417457	RT T50	150	257	10	M24	NONE*	NONE*	90	280	161	112.50	22	NONE*

Notes: ■ *The RT T50 tensioner is supplied with NO HOLES in the arms allowing the customer to attached whatever type idler shaft/bearing arrangement necessary for their application. ■ Lovejoy can custom machine the arms upon request. Consult factory for quote. ■ See page 12 for "F" and "S" dimensions.

RunRight Tensioners Type RT P (Plastic Tensioners)

RunRight RT P tensioners are designed for light duty applications where an economical product choice is required. They are manufactured of glass-reinforced DuPont Zytel® Nylon with the standard Tensys 10 rubber inserts and a dual arm design. The PT tensioners are designed for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.

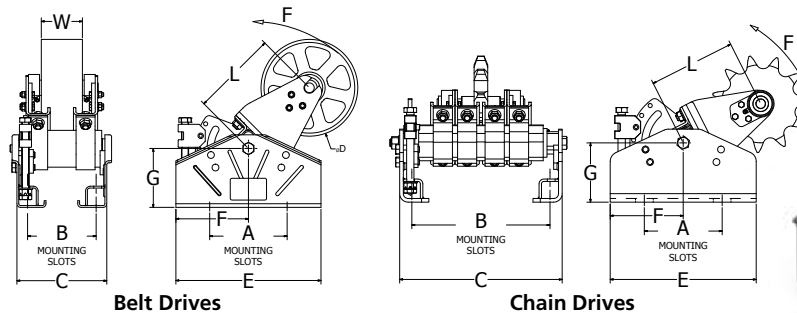


Tensioners Type RT P (Plastic Tensioner)

UPC #	Type	Dimensions - Inches										
		D	E	G	H	J	K	L-1	L-2	M	N	T
68514424481	RT P7	1.13	1.03	0.09	M4	2.36	0.72	2.72	3.55	1.36	0.56	1/4-20
68514424416	RT P11	1.56	2.03	0.18	1/4-20	3.15	1.00	3.17	4.41	1.84	1.13	3/8-16

RunRight Tensioners Type RT M

RunRight RT M tensioners are manufactured with steel parts and are designed for large heavy duty applications. They are manufactured with standard Tensys 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Tensioners Type RT M50 (Large Belt Drive Tensioner)

UPC #	Type	Dimensions - Inches									
		A	B	C	D	E	F	G	L	W	
68514482465	RT M50X105-4.25F10	8.00	10.00	10.00	10.00	15.00	7.50	6.09	8.90	4.25	
68514482384	RT M50X270-8.25F10	8.00	13.31	16.69	10.00	15.00	7.50	6.09	10.10	8.25	
68514480752	RT M50X400-14F12.25	10.71	16.69	22.81	12.25	19.29	7.50	5.90	12.66	14.00	

Tensioners Type RT M50 (Large Chain Drive Tensioner)

UPC #	Type	Dimensions - Inches									
		A	B	C	D	E	F	G	L	# of TEETH	
68514484272	RT M50X270-180	16.00	13.31	16.69	9.01	15.00	7.50	6.09	8.90	11	
68514483506	RT M50X270-200	16.00	13.31	16.69	10.02	15.00	7.50	6.09	8.90	11	
68514483496	RT M50X270-D200	16.00	13.31	10.00	10.02	15.00	7.50	6.09	8.90	11	
68514483500	RT M50X270-1245	16.00	13.31	16.69	—	15.00	7.05	6.09	8.90	9	

Notes: ■ All Type RT M50 tensioners are made to order. ■ Consult factory for your specific needs. ■ See pages 11 and 12 for additional product and performance data.

RunRight[®]

by **Lovejoy**

MOTOR BASES



Motor Bases



Inside this section:

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WARNING

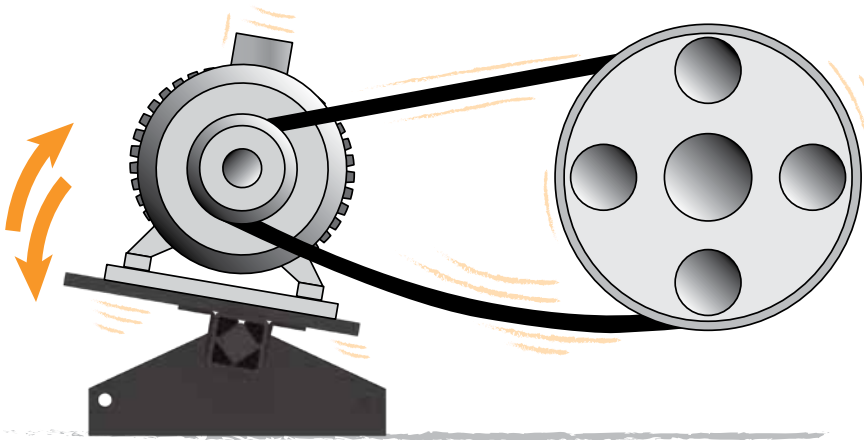
Failure to follow these cautions could create a risk of injury.

You must refer to page 8 for Important Safety Instructions and Precautions for the selection and use of these products.
Failure to follow the instructions and precautions can result in severe injury or death.

Motor Bases

Usage Illustrations

RunRight[®]
by **Lovejoy**

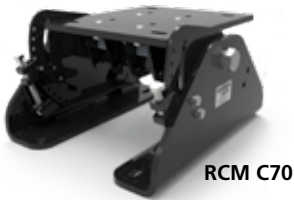
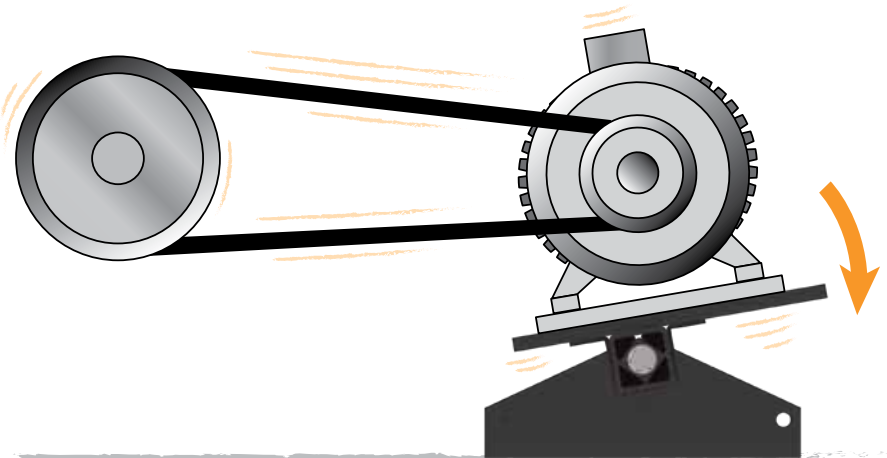


Designed specifically for starting and moving a loaded belt, absorbs the impact of material loading and provides stability for proper alignment.



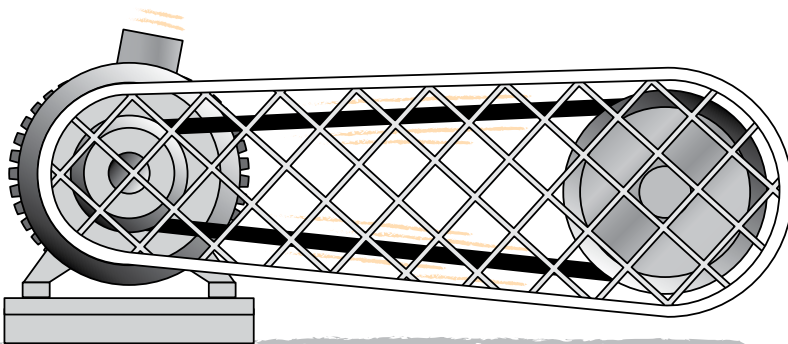
RCM C20

Maintenance-free tensioning Motor Base provides constant torque transmission and less energy consumption increasing the life of the drive system.



RCM C70

In a shrouded application, the Motor Base provides quiet torque transmission while continually tensioning belts.



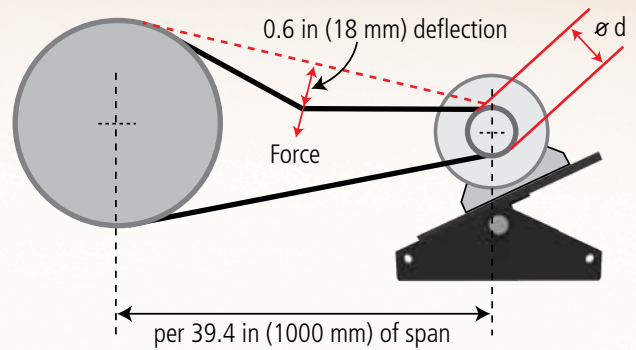
RCM T100

Motor Base Technology

RunRight elastomeric tensioning Motor Bases utilize a rubber suspension unit as a pivot mount. The rubber suspension unit continuously compensates for belt stretching, hopping, fluttering and excessive pull when a drive is started. RunRight tensioning Motor Bases are the ideal tensioning solution for all belt drives from about 1/2 to 700 HP.

Tensioning Force

The RunRight Motor Base is supplied with its mechanical pretensioning device at the ideal calibration of the relevant belt tension, based on the belt suppliers' test force recommendations. Common V-belt sizes and the recommended deflection forces are shown in the table below.



V-Belt Deflection Force Values – Average Tensioning Values (recommended minimum force per belt)

V-Belt Type	V-Belt Section	Small Sheave		Deflection Force for Drive Speed Ratio (lbs)			
		Speed Range	Dia.	1.00	1.5	2.0	4.0 & Over
Super II V-Belt or Super Blue Ribbon V-Belt	A AP	1800-3600	3.0	2.0	2.3	2.4	3.3
		1800-3600	4.0	2.6	2.8	3.0	3.3
		1800-3600	5.0	3.0	3.3	3.4	3.7
		1800-3600	7.0	3.5	3.7	3.8	4.3
	B BP	1200-1800	4.6	3.7	4.3	4.5	5.0
		1200-1800	5.0	4.1	4.6	4.8	5.6
		1200-1800	6.0	4.8	5.3	5.5	6.3
		1200-1800	8.0	5.7	6.2	6.4	7.2
	C CP	900-1800	7.0	6.5	7.0	8.0	9.0
		900-1800	9.0	8.0	9.0	10.0	11.0
900-1800		12.0	10.0	11.0	12.0	13.0	
700-1500		16.0	12.0	13.0	13.0	14.0	
DP	900-1500	12.0	13.0	15.0	16.0	17.0	
	900-1500	15.0	16.0	18.0	19.0	21.0	
	700-1200	18.0	19.0	21.0	22.0	24.0	
	700-1200	22.0	22.0	23.0	24.0	26.0	

V-Belt Type	V-Belt Section	Small Sheave		Deflection Force for Drive Speed Ratio (lbs)			
		Speed Range	Dia.	1.00	1.5	2.0	4.0 & Over
Power-Wedge Cog-Belt	3VX	1200-3600	2.2	2.2	2.5	2.7	3.0
		1200-3600	2.5	2.6	2.9	3.1	3.6
		1200-3600	3.0	3.1	3.5	3.7	4.2
		1200-3600	4.1	3.9	4.3	4.5	5.1
		1200-3600	5.3	4.6	4.9	5.1	5.7
		1200-3600	6.9	5.0	5.4	5.6	6.2
	5VX	1200-3600	4.4	6.5	7.5	8.0	9.0
		1200-3600	5.2	8.0	9.0	9.5	10.0
		1200-3600	6.3	9.5	10.0	11.0	12.0
		900-1800	9.0	12.0	13.0	14.0	15.0
		900-1800	14.0	14.0	15.0	16.0	17.0
		900-1800	12.5	18.0	21.0	23.0	25.0
	8VX	900-1800	14.0	21.0	23.0	24.0	28.0
		700-1500	14.0	24.0	26.0	28.0	30.0
700-1200		21.2	28.0	30.0	32.0	34.0	
700-1200		24.8	31.0	32.0	34.0	36.0	
900-1800		7.1	8.5	10.0	10.0	11.0	
900-1800		9.0	10.0	12.0	12.0	13.0	
Super Power-Wedge V-Belt	5V	900-1800	14.0	14.0	14.0	15.0	
		700-1200	21.2	14.0	16.0	16.0	17.0
		900-1800	12.5	18.0	23.0	23.0	25.0
		900-1800	14.0	21.0	24.0	24.0	28.0
	8V	700-1500	17.0	24.0	28.0	28.0	30.0
		700-1200	21.2	28.0	32.0	32.0	34.0
		400-1000	24.8	31.0	34.0	34.0	36.0

MOTOR BASES

RunRight® Motor Base Selection Guide

RunRight Model	Type of Motor Base	Page #	IEC			NEMA			
			Motor Frame Size	kW @ 1000 RPM (6-pole)	kW @ 1500 RPM (4-pole)	Motor Frame Size	HP @ 1200 RPM (6-pole)	HP @ 1800 RPM (4-pole)	
	RCM C20X143/145T	27	90S	0.8	1.1	143T	1/2	1	
			90L	1.1	1.5	145T	1	1-1/2 to 2	
	RCM C30X182T/184T	27	100L	1.5	2.2 to 3	182T	1-1/2	3	
			112M	2.2	4	184T	2	5	
	RCM C38X213T/256T	28	132S	3.0	5.5	213T	3	5 to 7-1/2	
			132M	4 to 5.5	7.5	215T	5	5 to 10	
			160M	7.5	11	254T	7.5	15	
			160L	11	15	256T	10	15 to 20	
	RCM C50X213T/215T	29	132S	3	5.5	213T	3	5 to 7-1/2	
	RCM C50X254T/256T		132M	4 to 5.5	7.5	215T	5	5 to 10	
			160M	7.5	11	254T	7.5	15	
	RCM C50X284T/286T		160L	11	15	256T	10	15 to 20	
			180M	—	18.5	284T	15	25	
	RCM C50X324T/326T		180L	15.0	22	286T	20	30	
			200M	18.5	30	324T	25	40	
	RCM C50X364T/365T		200L	22		326T	30	50	
			RCM C70X404T	30	225S	—	37	364T	40
	225M				30	45	365T	50	75
	RCM C70X404T	30	250S	37	55	404T	60	100	
	RCM C70X405T/444T		250M	45	75	405T	75	100 to 125	
				55	90	444T	100	125 to 150	
RCM C70X445T	280M	75	110	445T	125 to 150	150 to 200			
	RCM F70X324T/326T	31	200M	18.5	30	324T	25	40	
	326T					30	50		
	RCM F70X364T/365T		225S	30	37	364T	40	60	
									225M
RCM F70X405T	250M	45	75	405T	75	100 to 125			
	RCM L100X750	32	315S 315M	75 to 110	110 to 160	447T	150 to 350	200 to 350	
						449T			
						504			
						505			
						584			
						586			
	RCM T100X8307/5810	32	—	—	—	—	GE8307	400 TO 700	
							5810		
							586		
							587		
RCM T100X586/587	32	—	—	—	—	5009			
RCM T100X5009	32	—	—	—	—	5808			
RCM T100X5808	32	—	—	—	—				

MOTOR BASES

Motor Bases

RCM C20, RCM C30

RunRight RCM C20, RCM C30 Motor Bases

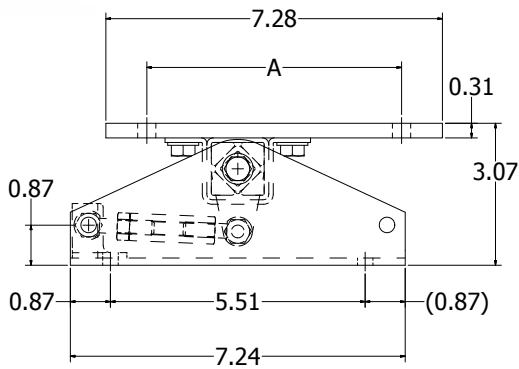
RunRight RCM C20 and RCM C30 Motor Bases are designed for smaller belt drives using an electric motor with 1/2 to 5 HP. They are used on 90S to 112M IEC frame sizes and 143T to 184T NEMA frame sizes. They are manufactured with all steel components and Tensys™ 10 rubber inserts, and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



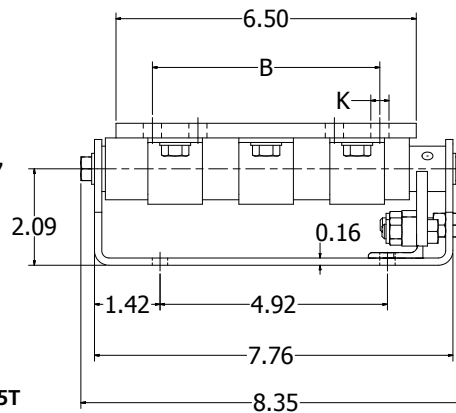
RCM C20X143/145T



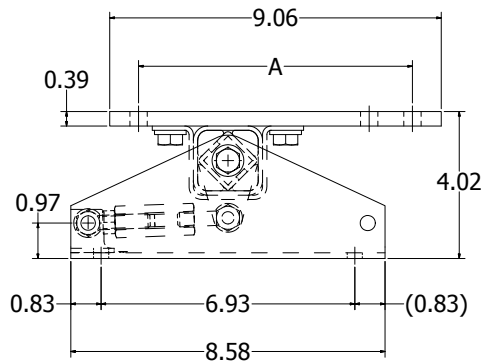
RCM C30X182T/184T



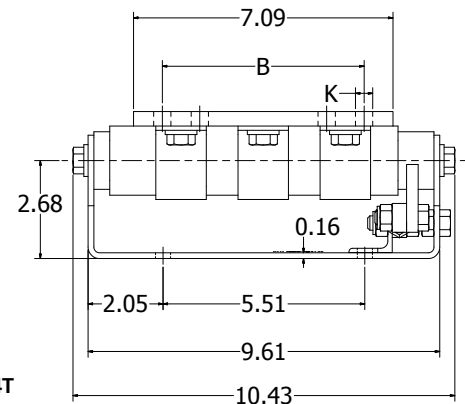
RCM C20X143/145T



RCM C30X182T/184T



RCM C30X182T/184T



MOTORBASES

Motor Bases Type RCM C20, RCM C30

UPC #	Type	IEC MOTOR FRAMES (millimeters)				NEMA MOTOR FRAMES (inches)			
		FRAME SIZE	A	B	K	FRAME SIZE	A	B	K
68514485285	RCM C20X143/145T	90S	140	100	10.5	143T	5.50	4.00	0.34
		90L	140	125	10.5	145T	5.50	5.00	0.34
68514485286	RCM C30X182T/184T	100L	160	140	10.5	182T	7.50	4.50	0.41
		112M	190	140	10.5	184T	7.50	5.50	0.41

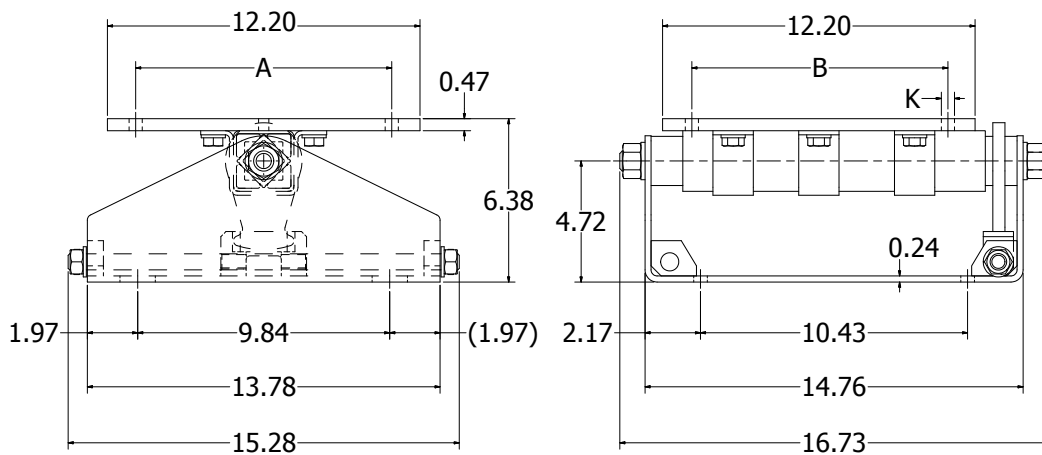
Motor Bases

RCM C38



RunRight RCM C38 Motor Bases

RunRight RCM C38 Motor Bases are designed for smaller belt drives using an electric motor with 3 to 20 HP. They are used on 132S to 160L IEC frame sizes and 213T to 256T NEMA frame sizes. They are manufactured with all steel components and Tensys™ 10 rubber inserts, and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



MOTORBASES

Motor Bases Type RCM C38

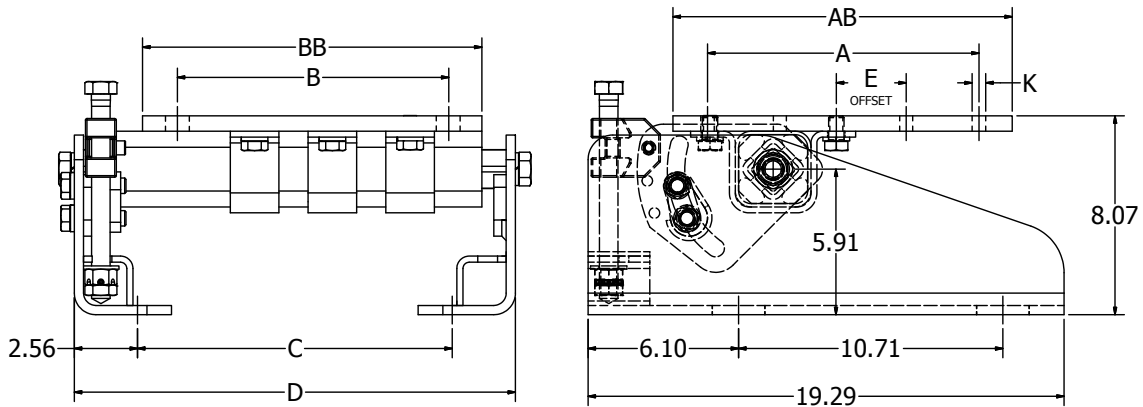
UPC #	Type	IEC MOTOR FRAMES (millimeters)				NEMA MOTOR FRAMES (inches)			
		FRAME SIZE	A	B	K	FRAME SIZE	A	B	K
68514463904	RCM C38X213T/256T	132S	216	140	M10	213T	8.50	5.50	0.41
		132M	216	178	M10	215T	8.50	7.00	0.41
		160M	254	210	13.0	254T	10.00	8.25	0.53
		160L	254	254	13.0	256T	10.00	10.00	0.53

Motor Bases

RCM C50

RunRight RCM C50 Motor Bases

RunRight RCM C50 Motor Bases are ideal for electric motors from 3 to 75 HP. They are used on 132S to 225M IEC frame sizes and 213T to 365T NEMA frame sizes. They are manufactured with all steel components and Tensys™ 10 rubber inserts, and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Motor Bases Type RCM C50

UPC #	Type	IEC MOTOR FRAMES (millimeters)				NEMA MOTOR FRAMES (inches)				Dimensions - Inches				
		FRAME SIZE	A	B	K	FRAME SIZE	A	B	K	AB	BB	C	D	E
68514463018	RCM C50X213T/215T	132S	216	140	3/8-16	213T	5.50	8.50	3/8-16	10.50	9.00	8.82	13.94	1.69
		132M	216	178	3/8-16	215T	7.00	8.50	3/8-16					
68514463019	RCM C50X254T/256T	160M	254	210	14.0	254T	10.00	8.25	0.55	12.13	12.13	12.76	17.88	1.77
		160L	254	254	14.0	256T	10.00	10.00	0.55					
68514463020	RCM C50X284T/286T	180M	279	241	14.0	284T	11.00	9.50	0.55	13.75	13.75	12.76	17.88	2.83
		180L	279	279	14.0	286T	11.00	11.00	0.55					
68514463021	RCM C50X324T/326T	200M	318	267	17.5	324T	12.50	10.50	0.69	15.88	14.68	16.69	21.81	2.83
		200L	318	305	17.5	326T	12.50	12.00	0.69					
68514463022	RCM C50X364T/365T	225S	356	286	17.5	364T	14.00	11.25	0.69	18.25	16.50	18.66	23.98	2.83
		225M	356	311	17.5	365T	14.00	12.25	0.69					

Notes: ■ All RunRight RCM C50 Motor Bases are supplied with the motor plate installed in the recommended offset position. ■ In some applications, such as screen drives, the motor plate may be altered to the center position of the element unit to compensate for belt operating angle and required pre-tensioning. ■ If necessary, the use of the 2nd hole positioning of the friction plate may be used to adjust the pre-tensioning travel.

MOTORBASES

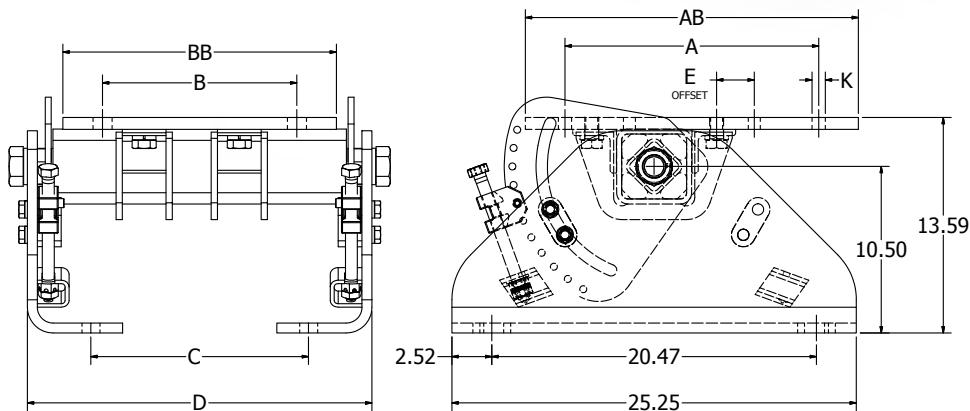
Motor Bases

RCM C70



RunRight RCM C70 Motor Bases

RunRight RCM C70 Motor Bases are ideal for electric motors from 15 to 200 HP. They are used on 180M to 280M IEC frame sizes and 284T to 445T NEMA frame sizes. They are manufactured with all steel components and Tensys™ 10 rubber inserts, and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



MOTORBASES

Motor Bases Type RCM C70

UPC #	Type	IEC MOTOR FRAMES (millimeters)				NEMA MOTOR FRAMES (inches)				Dimensions - Inches				
		FRAME SIZE	A	B	K	FRAME SIZE	A	B	K	AB	BB	C	D	E
68514463467	RCM C70404T	250S	406	311	20.5	404T	16.00	12.25	0.81	21.00	17.25	13.78	21.72	2.37
68514463469	RCM C70X405T/444T	250M	406	349	20.5	405T 444T	16.00	13.75 14.50	0.81	24.00	20.50	19.69	27.63	2.38
68514463471	RCM C70X445T	280M	457	419	20.5	445T	18.00	16.50	0.81	24.00	22.50	23.62	31.56	2.38

Notes: ■ If the pretensioning of the Motor Base is not effective, we recommend positioning the motor plate in the offset position to increase compensation travel.
 ■ All RunRight RCM C70 Motor Bases are supplied with the motor plate installed in the recommended offset position. In some applications, such as screen drives, the motor plate may be altered to the center position of the element unit to compensate for belt operating angle and required pre-tensioning. If necessary, the use of the 2nd hole positioning of the friction plate may be used to adjust the pre-tensioning travel.

Motor Bases

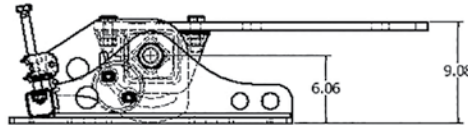
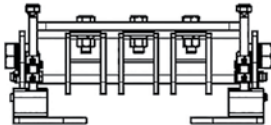
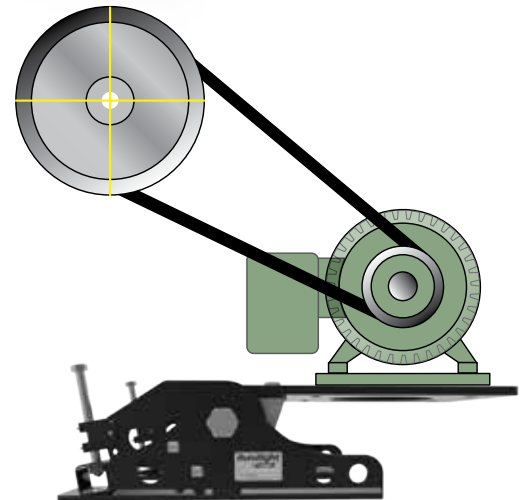
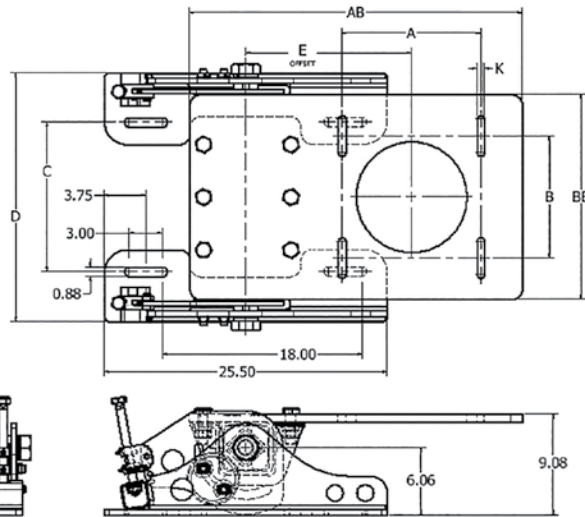
RCM F70

RunRight RCM F70 Motor Bases

RunRight RCM F70 Motor Bases are designed for Grizzly Feeder applications using NEMA 324T to 405T motor frames.

They are manufactured with all steel components and Tensys 10 rubber inserts, and can be used for applications within a -40° to 180° F (-40° to 80° C) temperature range.

These bases are designed to compensate for the extreme height fluctuations that Grizzly Feeders experience between being loaded and unloaded.



MOTORBASES

Motor Bases Type RCM F70

UPC #	Type	IEC MOTOR FRAMES (millimeters)			NEMA MOTOR FRAMES (inches)			Dimensions - Inches						
		FRAME SIZE	A	B	K	FRAME SIZE	A	B	K	AB	BB	C	D	E
68514487511	RCM F70X324T/326T	200M	318	267	17.5	324T	12.50	10.50	0.69	30.00	18.50	13.47	22.47	14.87
		200L		305		326T		12.00						
68514487512	RCM F70X364T/365T	225S	356	286	17.5	364T	14.00	11.25	0.69	30.00	18.50	13.47	22.47	14.90
		225M		311		365T		12.25						
68514488440	RCM F70X405T	250S	406	311	20.5	405T	14.00	13.75	0.81	32.00	24.00	19.38	28.38	16.83

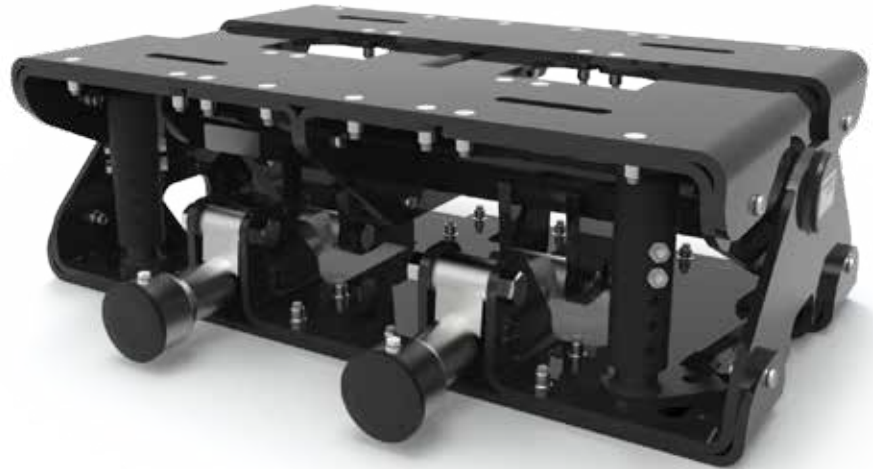
Motor Bases

RCM L100, RCM T100

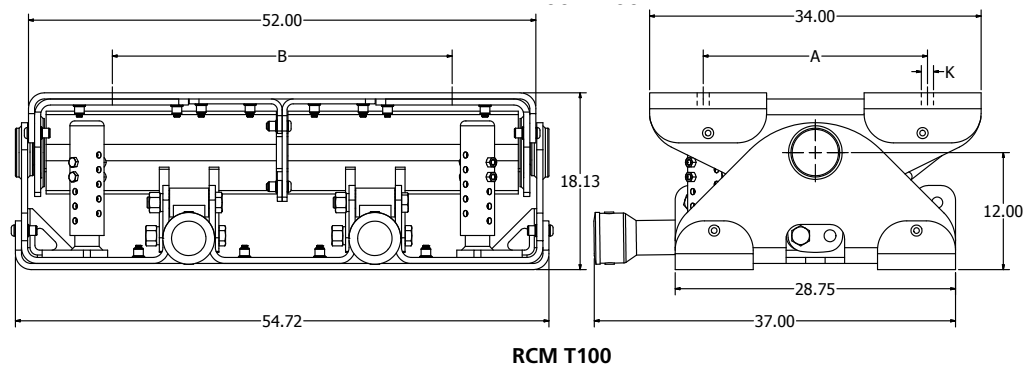
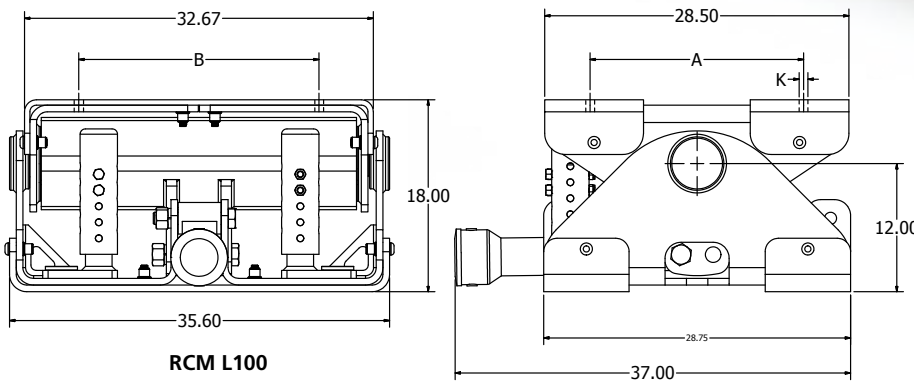


RunRight RCM L100, RCM T100 Motor Bases

RunRight RCM L100 and RCM T100 Motor Bases are ideal for electric motors from 150 to 700 HP. They are used on 315S and 315M IEC frame sizes and 447T to 5808 NEMA frame sizes. They are manufactured with all steel components and Tensys™ 10 rubber inserts, and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



MOTORBASES



Motor Bases Type RCM L100, RCM T100

UPC #	Type	IEC MOTOR FRAMES (millimeters)				NEMA MOTOR FRAMES (inches)			
		FRAME SIZE	A	B	K	FRAME SIZE	A	B	K
68514483510	RCM L100X750	Consult Factory				447T	18.00	20.00	0.81
						449T	18.00	25.00	
		315S	508	406	20.5	504	20.00	16.00	0.81
		315M	508	457		505	20.00	18.00	
		Consult Factory				584	23.00	18.00	1.13
						586	23.00	20.00	
				587	23.00	25.00			
68514483297	RCM T100X8307/5810	Consult Factory				GE8307	23.00	32.00	1.25
				5810	27.00	32.00			
68514483515	RCM T100X586/587	Consult Factory				586	23.00	20.00	1.13
				587	23.00	25.00			
68514483516	RCM T100X5009	Consult Factory				5009	20.00	28.00	1.25
68514484035	RCM T100X5808	Consult Factory				5808	23.00	28.00	1.25

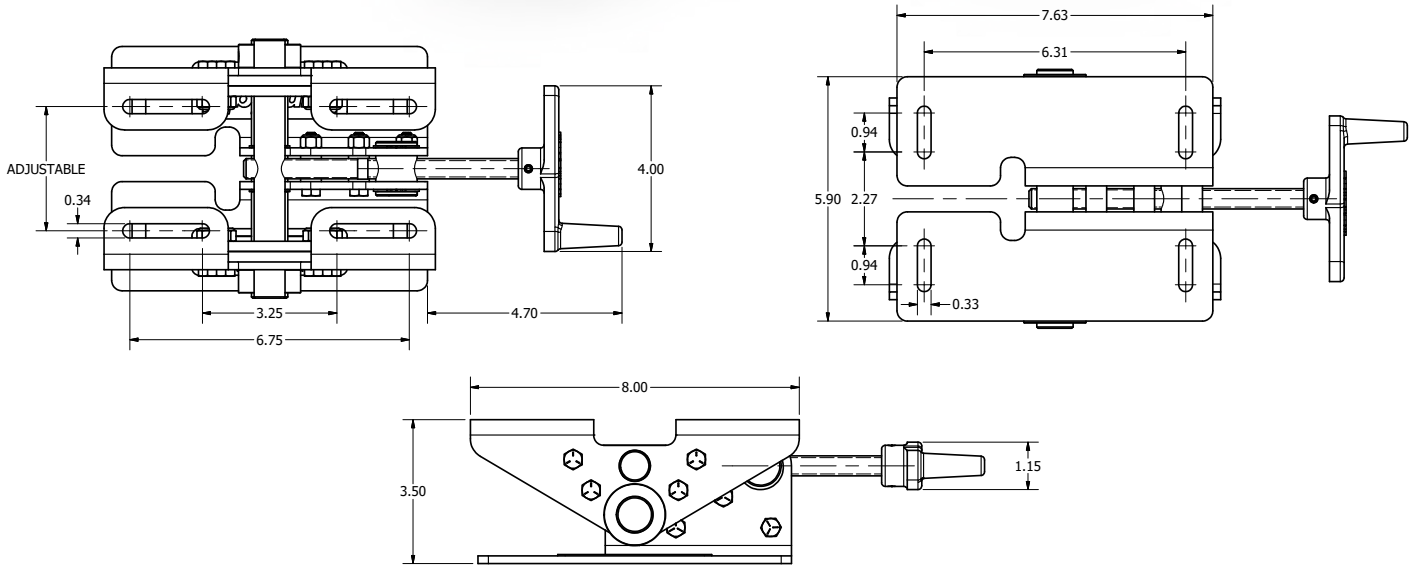
Notes: ■ The RCM L100 and RCM T100 Motor Bases listed are Made To Order / Engineered To Order only. Please consult factory for lead time availability or for motor frame sizes not listed.
 ■ The use of the front positioning hole of the pre-tensioning yoke may be used to increase the pre-tensioning travel.

Adjustable Motor Bases

RTM 48/56

RunRight RTM 48/56 Adjustable Motor Bases

The RunRight RTM 48/56 Adjustable/Tilting Motor Base is designed for small belt drives using NEMA 48 and 56 size motor frames. It is fabricated with powder coated steel components.



Motor Bases Type RTM 48/56

UPC #	Type	IEC MOTOR FRAME	NEMA MOTOR FRAMES
		SIZES	SIZES
68514490778	RTM 48/56	63	48
		71	56

RunRight[®]

by **Lovejoy**



OSCILLATING MOUNTS

Oscillating Mounts



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WARNING

Failure to follow these cautions could create a risk of injury.




You must refer to page 8 for Important Safety Instructions and Precautions for the selection and use of these products.
Failure to follow the instructions and precautions can result in severe injury or death.

Oscillating Mounts Selection Guide

Free Oscillating System Selection Table

Model		Page	Single Mass System Circular Motion Screen	Single Mass System Linear Motion Screen	Counterframe Dual Mass System	Hanging Single Mass System Linear Motion Screen
	RSC	39, 40	Oscillating Mount specifically designed to support or suspend vibratory equipment or drive systems. Equipment frequency of 2 to 3 Hz. 9 sizes from 11 to 4,500 lbs per RSC.			
	RSC HD	41	Heavy duty Oscillating Mount specifically designed for impact loads and inconsistent production loading. Equipment frequency of 2.5 to 3.5 Hz. 6 sizes from 112 to 3,145 lbs per RSC-HD.			
	RSC D	42		Compact design Oscillating Mount with a much higher load capacity ideal for two mass systems. Equipment frequency of 3 to 4.5 Hz. 7 sizes from 110 to 3,600 lbs per RSC-D.		
	RSC SS	43	Stainless steel Oscillating Mount specific for food, pharmaceutical and wash down requirements. Equipment frequency of 2 to 3 Hz. 6 sizes from 16 to 1,528 lbs per RSC-SS.			
	RSC HS	44				Oscillation mounts designed to suspend vibratory equipment or drive systems. Equipment frequency of 3 to 4 Hz. 5 sizes from 112 to 3,147 lbs per RSC-HS.



Crank Driven System Selection Table

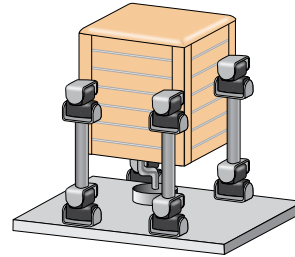
Model		Page	Single Mass Brute-Force Shaker System	Single Mass Natural Frequency Shaker System
	RSC R	45	Single Rocker for either supporting or suspending vibratory conveyors, screens, feeder equipment. Either right or left-hand threads on mounts. 7 sizes from 22 to 1,124 lbs per rocker.	
	RDH	46	Drive Head designed to transmit power from an eccentric through the connecting rod and flexible head. Either right or left-hand threads on drive heads. 5 sizes from 90 to 1,350 lbs per drive head.	
	RSD A	47		Highly dynamic Spring Accumulator designed for feeder systems that operate near resonance frequency. 5 sizes from 571 to 1,827 in-lbs.

OSCILLATING MOUNTS

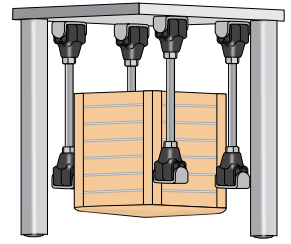
Gyratory Sifter Selection Guide

Gyratory Sifters Selection Table

Model	Page	Application Notes
 <p>RSC V</p>	48	Rocker with larger than standard elastomeric elements designed for free-hanging gyratory sifting machines. Either right or left-hand threads. 5 sizes up to 3,600 lbs per RSC V.
 <p>RSC UJ</p>	49	Rocker designed for supporting or suspending gyratory sifting machines. 10 sizes up to 9,000 lbs per RSC UJ.



Gyratory sifter upright staying



Gyratory sifter hanging

Application Example: Shaker

Mass of empty shaker frame and drive: m_s (1,500 lbs)

Mass of product: m_p (440 lbs)

Total vibrating mass: m (1,940 lbs)

Mass distribution feed end: 33%

Mass distribution discharge end: 67%

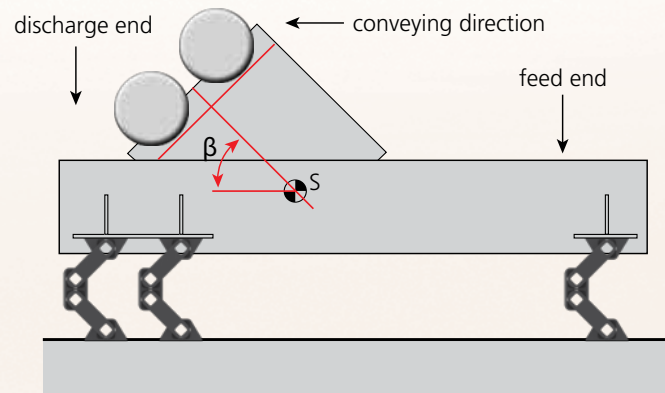
Feed end load per corner: F_f (320 lbs)

Discharge end load per corner: F_d (649 lbs)

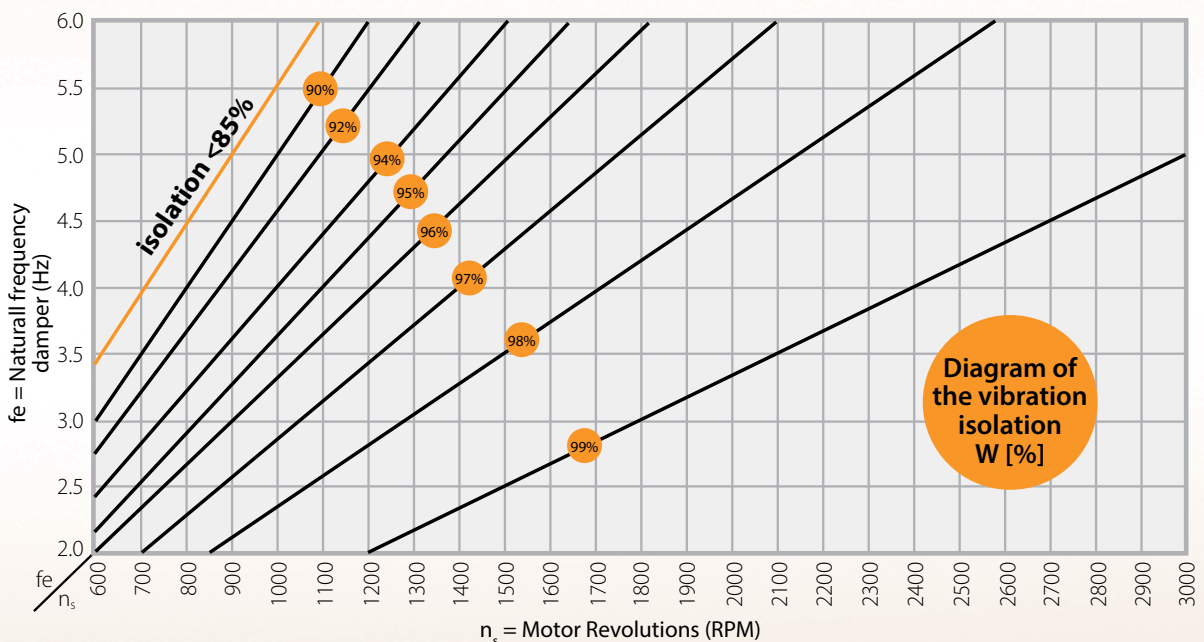
Motor revolutions: n_s (960 RPM)

Feed End Load Formula:
$$F_f = \left(\frac{m \cdot \% \text{ feed end}}{2} \right)$$

Discharge End Load Formula:
$$F_d = \left(\frac{m \cdot \% \text{ discharge end}}{2} \right)$$



This application would require six RSC 38 Oscillating Mounts. Two on each side of the discharge end and one on each side of the feed end. Using the chart below, select the proper motor revolutions and the natural frequency of the RSC unit selected. This shows the RSC 38 will give 97% isolation at 2.7Hz with 960 RPM motor revolution.



Oscillating Mounts

Usage Illustrations

Overload-proof vibration-absorbing mounts provide a high degree of isolation on both linear and circular motion screens.

RSC

OSCILLATING MOUNTS

Long-lasting, quiet-operating rockers, are designed to support or suspend oscillatory equipment and machinery.

RSC UJ

Maintenance-free rocker arms designed for use on eccentric oscillator drive systems for either supporting or suspending vibratory conveyors, screens, and feeder equipment. Flexible drive head transmits power from an eccentric through the connecting rod.

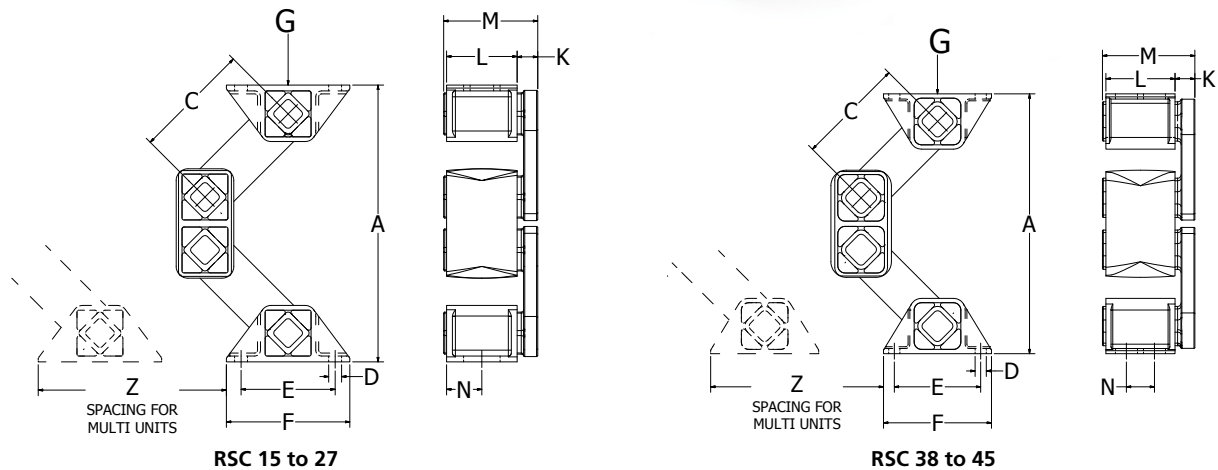
RSC R

Oscillating Mounts

RSC 15 to 45

RunRight Oscillation Mounts RSC 15 to 45

The RunRight Oscillation Mounts RSC 15 to 45 are specifically designed to support or suspend vibratory equipment or drive systems. These mounts remove harmful resident frequencies that cause spring damage due to an inefficient system that utilizes coil spring suspensions and eliminates resulting safety concerns. All housings are cast iron and the inner squares and arms are steel. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Oscillating Mounting Type RSC 15 to 45

UPC #	Type	G Load Range lbs (N)	Dimensions - Inches (mm)											
			A	A	A	C	D	E	F	K	L	M	N	Z
			UNLOADED	MAX LOAD	REPLACE HEIGHT									
68514478498	RSC 15	11 to 36 (50 to 160)	6.57 (167)	4.57 (116)	4.05 (103)	3.15 (80)	.28 (7)	1.97 (50)	2.56 (66)	.47 (12)	1.57 (40)	2.08 (53)	.79 (20)	3.54 (90)
68514478499	RSC 18	27 to 67 (120 to 300)	8.11 (206)	5.63 (143)	4.96 (126)	3.94 (100)	.35 (9)	2.36 (60)	3.15 (80)	.55 (14)	1.97 (50)	2.36 (67)	.98 (25)	4.33 (110)
68514478500	RSC 27	56 to 180 (250 to 800)	9.25 (235)	6.77 (172)	6.10 (155)	3.94 (100)	.43 (11)	3.15 (80)	4.13 (105)	.71 (18)	2.36 (60)	3.15 (80)	1.18 (30)	5.51 (140)
68514478501	RSC 38	135 to 360 (600 to 1,600)	11.85 (301)	8.74 (222)	7.91 (201)	4.92 (125)	.51 (13)	3.94 (100)	4.92 (125)	.91 (23)	3.15 (80)	4.21 (107)	1.97 (32)	7.08 (180)
68514481086	RSC 45	270 to 670 (1,200 to 3,000)	13.62 (346)	14.06 (357)	9.25 (235)	5.51 (140)	.51 (13)	4.53 (115)	5.83 (148)	1.10 (28)	3.94 (100)	5.2 (132)	2.76 (40)	8.46 (215)

Note: ■ After one year, the specified cold flow will occur at the maximum allowable compressible load range.

UPC #	Type	Natural Frequency G Min - G Max (Hz)	Dynamic Spring Value		Capacity limits @ different RPM						Materials / Finish		
			cd Vertical (N/mm)	cd Horizontal (N/mm)	720 RPM		960 RPM		1440 RPM		Inner Square & Arms	Outer Housing	Finish
					sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)			
68514478498	RSC 15	4.3 - 2.8	10	6	14	4.1	12	6.2	8	9.3	Steel welded construction	Cast Iron	Painted Black
68514478499	RSC 18	3.6 - 2.6	18	14	17	4.9	15	7.7	8	9.3			
68514478500	RSC 27	3.7 - 2.7	40	25	17	4.9	14	7.2	8	9.3			
68514478501	RSC 38	3.0 - 2.4	60	30	20	5.8	17	8.8	8	9.3			
68514481086	RSC 45	2.8 - 2.3	100	50	21	6.1	18	9.3	8	9.3			

Notes: ■ Dynamic spring values at 960 RPM and deflection (sw) of 8mm at nominal loads. ■ It is not recommended to exceed accelerations greater than 9.3g. See pages 36 and 37 for additional product and performance data. ■ 1 indicates: sw = oscillating stroke (deflection). ■ * indicates: K = oscillating machine factor.

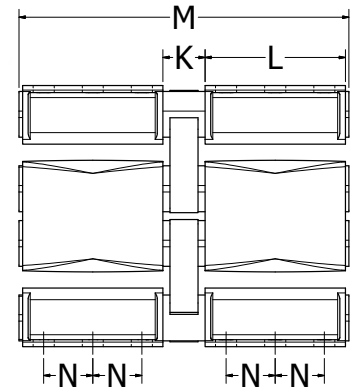
Oscillating Mounts

RSC 50

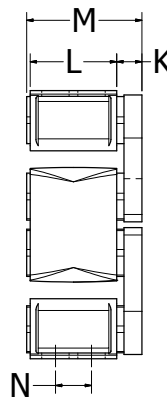
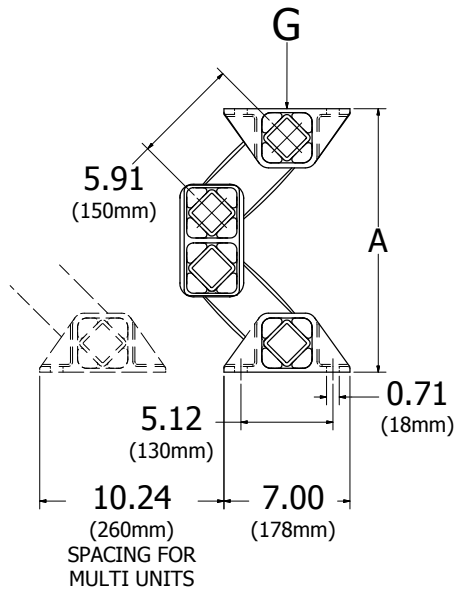


RunRight Oscillation Mounts RSC 50

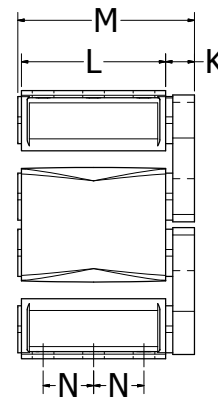
The RunRight Oscillation Mounts RSC 50 are specifically designed to support or suspend vibratory equipment or drive systems. These mounts remove harmful resident frequencies that cause spring damage due to an inefficient system that utilizes coil spring suspensions and eliminates resulting safety concerns. All housings are cast iron and the inner squares and arms are steel. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



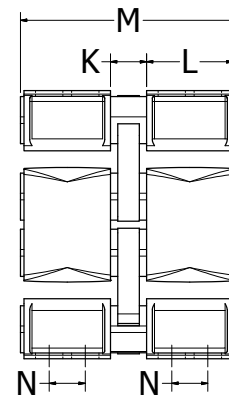
RSC 50-2 TWIN



RSC 50



RSC 50-2



RSC 50 TWIN

Oscillating Mounting Type RSC 50

UPC #	Type	G Load Range lbs (N)	Dimensions - Inches (mm)						
			A	A	A	K	M	N	L
			UNLOADED	MAX LOAD	REPLACE HEIGHT				
68514425211	RSC 50	560 to 1,350 (2,500 to 6,000)	14.64 (372)	10.90 (277)	9.96 (253)	1.38 (35)	6.30 (160)	1.97 (50)	4.72 (120)
68514463428	RSC 50-2	940 to 2,250 (4,180 to 10,000)	14.49 (368)	10.75 (273)	9.80 (249)	1.57 (40)	9.65 (245)	2.76 (70)	7.87 (200)
68514463797	RSC 50 TWIN	1,120 to 2,700 (4,980 to 12,000)	14.64 (372)	10.90 (277)	9.96 (253)	1.97 (50)	11.81 (300)	1.97 (50)	4.72 (120)
68514463798	RSC 50-2 TWIN	1,890 to 4,500 (8,400 to 20,000)	14.49 (368)	10.75 (273)	9.80 (249)	2.36 (60)	18.5 (470)	2.76 (70)	7.87 (200)

Notes: ■ These OSC Mounts may be "Mixed & Matched" as required to achieve proper loading.
 ■ After one year, the specified cold flow will occur at the maximum allowable compressible load range.

UPC #	Type	Natural Frequency G Min - G Max (Hz)	Dynamic Spring Value		Capacity limits @ different RPM						Materials / Finish		
			cd Vertical (N/mm)	cd Horizontal (N/mm)	720 RPM		960 RPM		1440 RPM		Inner Square & Arms	Outer Housing	Finish
					sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)			
68514425211	RSC 50	2.4 - 2.1	195	85	22	6.4	18	9.3	8	9.3	Steel welded construction	Cast Iron	Painted Black
68514463428	RSC 50-2		320	140									
68514463797	RSC 50 TWIN		380	170									
68514463798	RSC 50-2 TWIN		640	280									

Notes: ■ Dynamic spring values at 960 RPM and deflection (sw') of 8mm at nominal loads. ■ It is not recommended to exceed accelerations greater than 9.3g.
 See pages 36 and 37 for additional product and performance data. ■ 1 indicates: sw = oscillating stroke (deflection). ■ * indicates: K = oscillating machine factor.

OSCILLATING MOUNTS

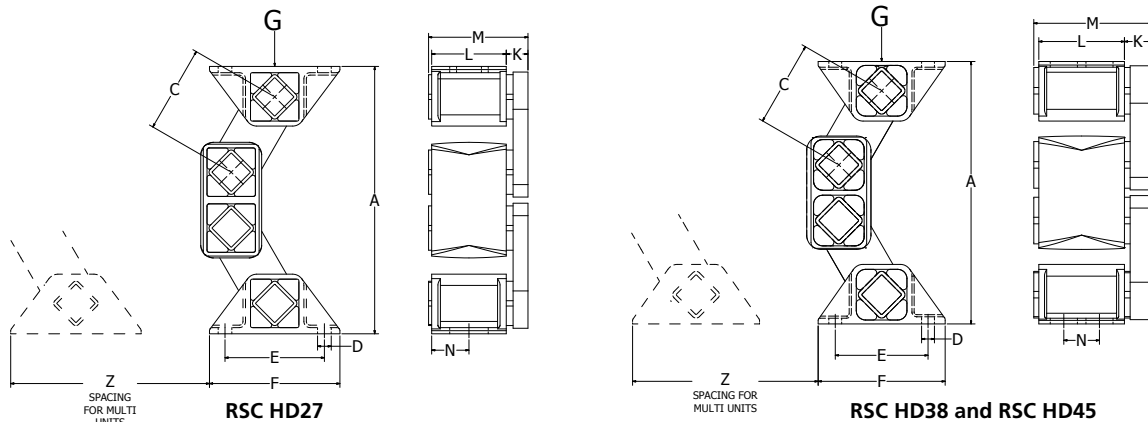
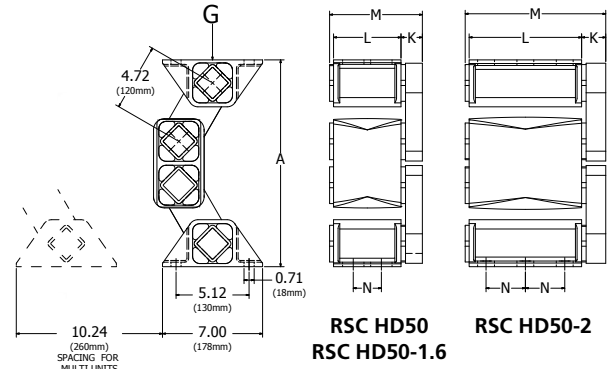
Oscillating Mounts

RSC HD



RunRight Oscillation Mounts RSC HD

The RunRight Oscillation Mounts RSC HD are a heavy-duty mount specifically designed for impact loads and inconsistent production loading. All housings are cast iron and the inner squares and arms are steel. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Oscillating Mounting Type RSC HD

UPC #	Type	G Load Range lbs (N)	Dimensions - Inches (mm)										
			A		C	D	E	F	K	L	M	N	Z
			UNLOADED	MAX LOAD									
68514483844	RSC HD27	112 to 280 (500 to 1,250)	8.46 (215)	7.17 (182)	2.76 (70)	0.43 (11)	3.15 (80)	4.13 (105)	0.67 (17)	2.36 (60)	3.15 (80)	0.79 (20)	5.51 (140)
68514483845	RSC HD38	270 to 570 (1,200 to 2,500)	11.54 (293)	9.68 (246)	3.74 (95)	0.51 (Ø13)	3.94 (100)	4.72 (125)	0.83 (21)	3.15 (80)	4.09 (104)	1.58 (40)	7.08 (180)
68514483846	RSC HD45	450 to 945 (2,000 to 4,200)	13.62 (346)	11.42 (290)	4.33 (110)	0.51x0.79 (13x20)	4.53 (115)	5.71 (145)	1.10 (28)	3.94 (100)	5.20 (132)	2.56 (65)	8.46 (215)
68514480319	RSC HD50	785 to 1,880 (3,500 to 8,400)	14.48 (368)	12.00 (305)	—	—	—	—	1.50 (38)	4.72 (120)	6.50 (165)	1.97 (50)	—
68514482742	RSC HD50-1.6	1,075 to 2,540 (4,800 to 11,300)	14.48 (368)	10.9 (277)	—	—	—	—	1.50 (38)	6.30 (160)	8.07 (205)	2.76 (70)	—
68514479095	RSC HD50-2	1,345 to 3,145 (6,000 to 14,000)	14.48 (368)	10.9 (277)	—	—	—	—	1.69 (43)	7.87 (200)	9.84 (250)	2.76 (70)	—

Notes: ■ The OSC Mounts shown shaded in gray may be "Mixed & Matched" as required to achieve proper loading.
 ■ After one year, the specified cold flow will occur at the maximum allowable compressible load range.

UPC #	Type	Natural Frequency G Min - G Max (Hz)	Dynamic spring value		Capacity limits @ different RPM					Materials / Finish			
			cd Vertical (N/mm)	cd Horizontal (N/mm)	720 RPM		960 RPM		1440 RPM		Inner Square & Arms	Outer Housing	Finish
					sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)			
68514483844	RSC HD27	4.8 - 3.1	70	33	12	3.5	10	5.2	8	9.3			
68514483845	RSC HD38	3.6 - 2.7	100	48	15	4.3	13	6.7	8	9.3			
68514483846	RSC HD45	3.3 - 2.5	150	72	17	4.9	14	7.2	8	9.3			
68514480319	RSC HD50	3.2 - 2.4	270	130	18	5.2	15	7.7	8	9.3			
68514482742	RSC HD50-1.6	3.2 - 2.4	360	172	18	5.2	15	7.7	8	9.3			
68514479095	RSC HD50-2	3.2 - 2.4	450	215	18	5.2	15	7.7	8	9.3			

Notes: ■ Dynamic spring values at 960 RPM and deflection (sw) of 8mm at nominal loads. ■ It is not recommended to exceed accelerations greater than 9.3g.
 See pages 36 and 37 for additional product and performance data. ■ 1 indicates: sw = oscillating stroke (deflection). ■ * indicates: K = oscillating machine factor.

OSCILLATING MOUNTS

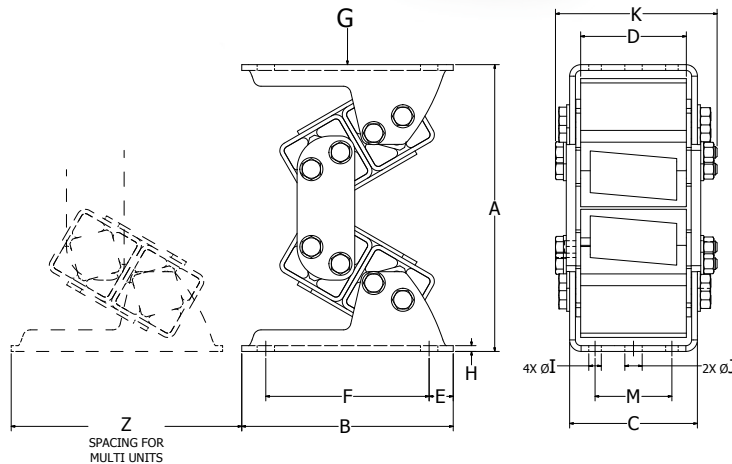
Oscillating Mounts

RSC D



RunRight Oscillation Mounts RSC D

The RunRight Oscillation Mounts RSC D are a compact design with a much higher load capacity than the standard RSC Mounts, ideal for two mass systems. All housings are cast iron and the inner squares and arms are steel. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Oscillating Mounting Type RSC D

UPC #	Type	G Load Range lbs (N)	Dimensions - Inches (mm)												
			A		B	C	D	E	F	H	I	J	K	M	Z
			UNLOADED	MAX LOAD											
68514475676	RSC D18	110 to 270 (500 to 1,200)	5.39 (137)	4.61 (112)	4.53 (115)	2.40 (61)	1.97 (50)	0.49 (12.5)	3.54 (90)	0.12 (3)	0.35 (9)	0.35 (9)	2.91 (74)	1.18 (30)	4.72 (120)
68514463733	RSC D27	225 to 560 (1,000 to 2,500)	7.24 (184)	6.18 (148)	5.91 (150)	3.66 (93)	3.15 (80)	0.59 (15)	4.72 (120)	0.16 (4)	0.35 (9)	0.43 (11)	4.57 (116)	1.97 (50)	6.10 (155)
68514463734	RSC D38	450 to 900 (2,000 to 4,000)	9.61 (244)	8.23 (199)	7.28 (185)	4.65 (118)	3.94 (100)	0.69 (17.5)	5.91 (150)	0.20 (5)	0.43 (11)	0.53 (13.5)	5.79 (147)	2.76 (70)	7.48 (190)
68514475677	RSC D45	675 to 1,350 (3,000 to 6,000)	11.73 (298)	9.92 (240)	8.66 (220)	5.20 (132)	4.33 (110)	0.98 (25)	6.69 (170)	0.24 (6)	0.53 (13.5)	0.71 (18)	6.61 (168)	3.15 (80)	8.86 (225)
68514463854	RSC D50	900 to 2,025 (4,000 to 9,000)	12.95 (329)	10.94 (272)	9.25 (235)	5.59 (142)	4.72 (120)	0.98 (25)	7.28 (185)	0.31 (8)	0.53 (13.5)	0.71 (18)	6.54 (166)	3.54 (90)	9.45 (240)
68514463855	RSC D50-1.6	1,350 to 2,700 (6,000 to 12,000)	12.95 (329)	10.94 (272)	9.25 (235)	7.32 (186)	6.30 (160)	0.98 (25)	7.28 (185)	0.31 (8)	0.53 (13.5)	0.71 (18)	8.43 (214)	3.54 (90)	9.45 (240)
68514463856	RSC D50-2	1,800 to 3,600 (8,000 to 16,000)	12.95 (329)	10.94 (272)	9.25 (235)	8.90 (226)	7.87 (200)	0.98 (25)	7.28 (185)	0.31 (8)	0.53 (13.5)	0.71 (18)	10.24 (260)	3.54 (90)	9.45 (240)

Notes: ■ The OSC Mounts shown shaded in gray may be "Mixed & Matched" as required to achieve proper loading.
 ■ After one year, the specified cold flow will occur at the maximum allowable compressible load range.

UPC #	Type	Natural Frequency G Min - G Max (Hz)	Dynamic spring value			Capacity limits @ different RPM						Materials / Finish (Zinc Plated Hardware)
			cd vertical (N/mm)	cd at sw [mm]	cd horizontal (N/mm)	720 RPM		960 RPM		1440 RPM		
						sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)	
68514475676	RSC D18	6.1 - 4.4	100	4	20	5	1.4	5	2.6	4	4.6	Aluminum Inner Profiles Painted Black Cast Iron Housings Zinc Plated Steel Brackets
68514463733	RSC D27	5.4 - 3.9	160	4	35	7	2.0	6	3.1	5	5.8	
68514463734	RSC D38	4.3 - 3.4	185	6	40	9	2.6	8	4.1	6	7.0	
68514475677	RSC D45	3.7 - 3.1	230	8	70	11	3.2	9	4.6	7	8.1	
68514463854	RSC D50	3.7 - 2.9	310	8	120	12	3.5	10	5.2	8	9.3	
68514463855	RSC D50-1.6	3.7 - 2.9	430	8	160	12	3.5	10	5.2	8	9.3	
68514463856	RSC D50-2	3.5 - 2.8	540	8	198	12	3.5	10	5.2	8	9.3	

Notes: ■ Dynamic spring values at 960 RPM and deflection (sw) of 8mm at nominal loads. ■ It is not recommended to exceed accelerations greater than 9.3g.
 See pages 36 and 37 for additional product and performance data. ■ 1 indicates: sw = oscillating stroke (deflection). ■ * indicates: K = oscillating machine factor.

OSCILLATING MOUNTS

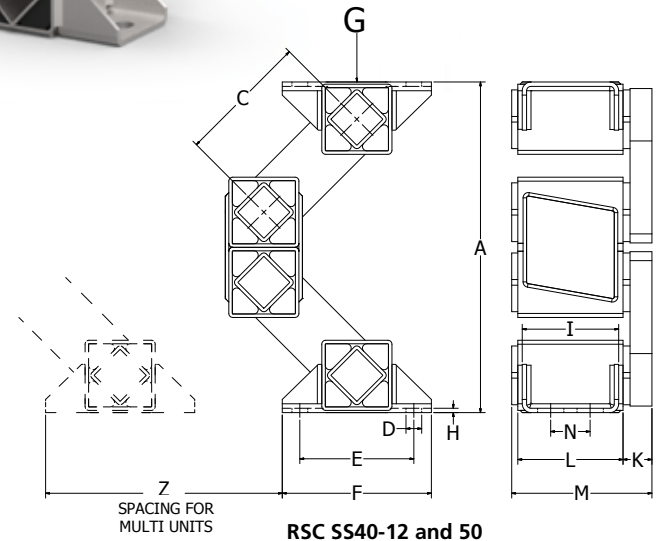
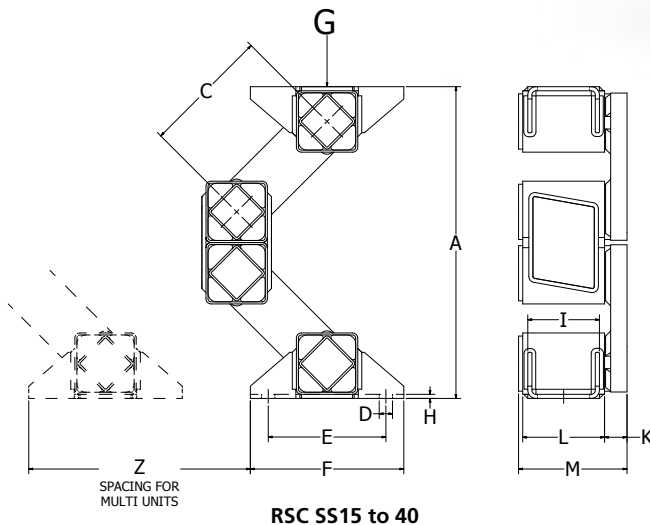
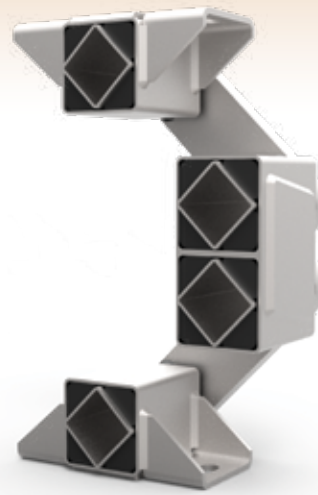
Oscillating Mounts

RSC SS



RunRight Oscillation Mounts RSC SS

The RunRight Oscillation Mounts RSC SS are a stainless steel design specific for the food, pharmaceutical and wash down requirements. All housings, arms and inner squares are manufactured out of stainless steel. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Oscillating Mounting Type RSC SS

UPC #	Type	G Load Range lbs (N)	Dimensions - Inches (mm)												
			A		C	D	E	F	H	I	K	L	M	N	Z
			UNLOADED	MAX LOAD											
68514457918	RSC SS15	16 to 40 (70 to 180)	6.58 (167)	4.50 (114)	3.15 (80)	.28 x .53 (7 x 13.5)	1.97 (50)	2.56 (65)	.10 (2.5)	1.34 (34)	.53 (13.5)	1.57 (40)	2.09 (53)	—	4.53 (115)
68514457919	RSC SS20	36 to 103 (160 to 460)	8.39 (213)	5.75 (146)	3.94 (100)	.35 x .59 (9 x 15)	2.56 (65)	3.35 (85)	.08 (2)	1.73 (44)	.55 (14)	1.97 (50)	2.64 (67)	—	5.71 (145)
68514457920	RSC SS30	90 to 225 (400 to 1,000)	9.82 (249)	7.24 (184)	3.94 (100)	.43 x .79 (11 x 20)	3.35 (85)	4.33 (110)	.16 (4)	1.97 (50)	.63 (16)	2.36 (60)	3.15 (80)	—	6.50 (165)
68514457921	RSC SS40	157 to 360 (700 to 1,600)	12.00 (305)	8.86 (225)	4.92 (125)	.51 x .98 (13 x 25)	4.53 (115)	5.90 (150)	.16 (4)	2.76 (70)	.87 (22)	3.15 (80)	4.17 (106)	—	8.46 (215)
68514485674	RSC SS40-12	292 to 720 (1,300 to 3,200)	10.61 (270)	8.00 (203)	3.94 (100)	.51 x .79 (13 x 20)	4.53 (115)	5.90 (150)	.16 (4)	4.33 (110)	.87 (22)	4.72 (120)	5.75 (146)	2.36 (60)	8.46 (215)
68514457922	RSC SS50	560 to 1,528 (2,500 to 6,800)	14.85 (377)	14.99 (279)	5.91 (150)	.71 x 1.18 (18 x 30)	5.12 (130)	6.69 (170)	.20 (5)	4.33 (110)	1.30 (33)	4.72 (120)	6.30 (160)	1.77 (45)	11.02 (280)

Note: ■ After one year, the specified cold flow will occur at the maximum allowable compressible load range.

UPC #	Type	Natural Frequency G Min - G Max (Hz)	Dynamic spring value		Capacity limits @ different RPM						Materials / Finish		
			cd Vertical (N/mm)	cd Horizontal (N/mm)	720 RPM		960 RPM		1440 RPM		Inner Square & Arms	Outer Housing	Finish
					sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)			
68514457918	RSC SS15	4 - 2.8	10	6	14	4.1	12	6.2	8	9.3	Stainless Steel welded construction	Stainless Steel welded construction	Unpainted
68514457919	RSC SS20	3.6 - 2.4	22	14	177	4.9	15	7.7	8	9.3			
68514457920	RSC SS30	3.5 - 2.6	48	27	177	4.9	14	7.2	8	9.3			
68514457921	RSC SS40	3 - 2.4	60	30	20	5.8	17	8.8	8	9.3			
68514485674	RSC SS40-12	3.4 - 2.6	115	55	16	4.6	13	6.7	8	9.3			
68514457922	RSC SS50	2.8 - 2.2	220	100	22	6.4	18	9.3	8	9.3			

Notes: ■ Dynamic spring values at 960 RPM and deflection (sw') of 8mm at nominal loads. ■ It is not recommended to exceed accelerations greater than 9.3g. See pages 36 and 37 for additional product and performance data. ■ 1 indicates: sw = oscillating stroke (deflection). ■ * indicates: K = oscillating machine factor.

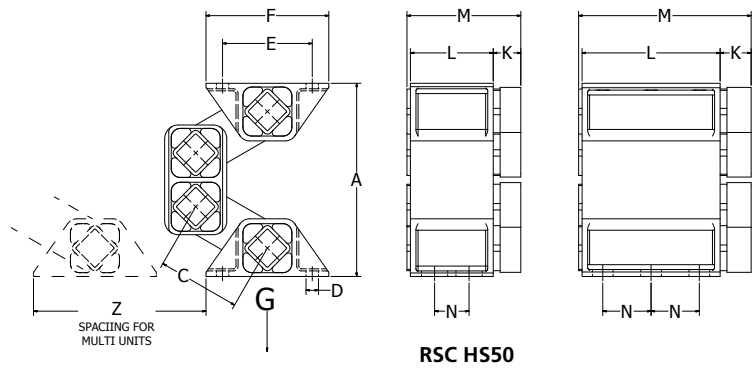
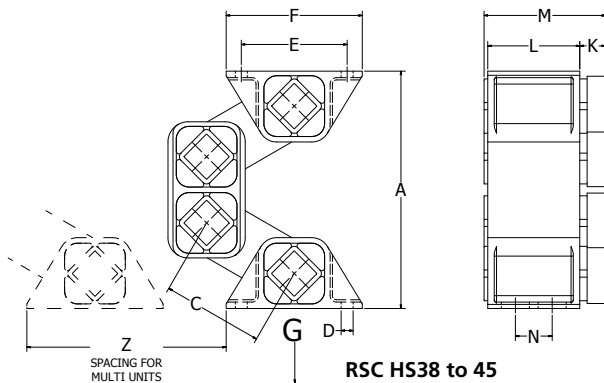
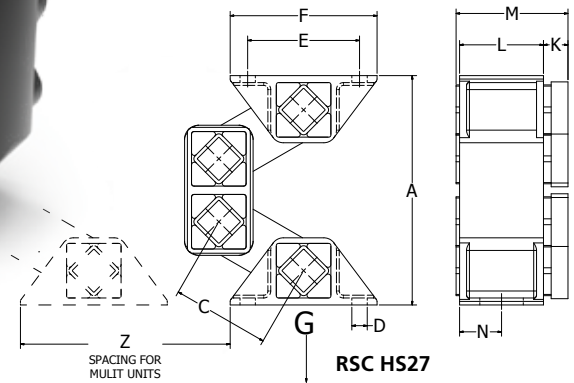
Oscillating Mounts

RSC HS



RunRight Oscillation Mounts RSC HS

The RunRight Oscillation Mounts RSC HS are specifically designed to suspend vibratory equipment or drive systems. These mounts remove harmful resident frequencies that cause spring damage due to an inefficient system that utilizes coil spring suspensions, and eliminates resulting safety concerns. All housings are cast iron the inner squares and arms are steel. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40°F to +180°F (-40°C to +80°C) temperature range.



Oscillating Mounting Type RSC HS

UPC #	Type	G Load Range lbs (N)	Dimensions - Inches (mm)										
			A		C	D	E	F	K	L	M	N	Z
			UNLOADED	MAX LOAD									
68514481702	RSC HS27	112 to 281 (500 to 1,250)	6.46 (164)	7.95 (202)	2.76 (70)	.43 x 1.22 (11 x 31)	3.15 (80)	4.13 (105)	0.69 (17.5)	2.36 (60)	3.15 (80)	1.18 (30)	5.51 (140)
68514481703	RSC HS38	270 to 562 (1,200 to 2,500)	8.78 (223)	10.83 (275)	3.74 (95)	.51 x 1.38 (13 x 25)	3.94 (100)	4.92 (130)	0.91 (23)	3.15 (80)	4.21 (107)	1.58 (40)	7.08 (180)
68514481704	RSC HS45	450 to 944 (2,000 to 4,200)	10.43 (265)	12.80 (325)	4.33 (110)	.51 x 1.22 (13 x 31)	4.53 (115)	5.83 (148)	1.10 (28)	3.94 (100)	5.20 (132)	2.56 (65)	8.46 (215)
68514480297	RSC HS50	787 to 1,888 (3,500 to 8,400)	11.34 (288)	14.06 (357)	5.12 (130)	.71 x 1.50 (18 x 38)	5.12 (130)	7.00 (178)	1.50 (38)	4.72 (120)	6.50 (165)	1.97 (50)	10.24 (260)
68514480298	RSC HS50-2	1,350 to 3,147 (6,000 to 14,000)							1.69 (43)	7.87 (200)	9.84 (250)	2.76 (70)	

Notes: ■ After one year, the specified cold flow will occur at the maximum allowable compressible load range.
 ■ The OSC Mounts shown shaded in gray may be "Mixed & Matched" as required to achieve proper loading.

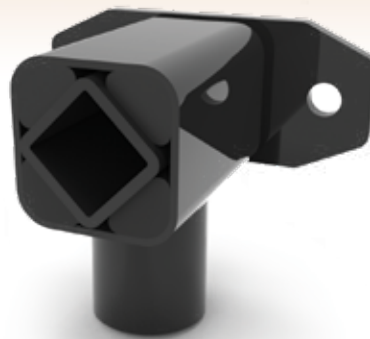
UPC #	Type	Natural Frequency G Min - G Max (Hz)	Dynamic spring value		Capacity limits @ different RPM						Materials / Finish		
			cd Vertical (N/mm)	cd Horizontal (N/mm)	720 RPM		960 RPM		1440 RPM		Inner Square & Arms	Outer Housing	Finish
					sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)	sw Max (mm)	K* Max (-)			
68514481702	RSC HS27	4.2-3.8	65	32	12	3.5	10	5.2	8	9.3	Steel welded construction	Cast Iron	Painted Black
68514481703	RSC HS38	3.6-3.3	95	46	15	4.3	13	6.7	8	9.3			
68514481704	RSC HS45	3.3-3.0	142	70	17	4.9	14	7.2	8	9.3			
68514480297	RSC HS50	3.2-3.0	245	120	18	5.2	15	7.7	8	9.3			
68514480298	RSC HS50-2	3.2-2.9	410	200	18	5.2	15	7.7	8	9.3			

Notes: ■ It is recommended that RSC HS Hanging Mounts be fastened with Class 8.8 or greater fasteners. ■ The Oscillation Mounts RSC HS must be fastened with Grade 8 bolt utilizing all mounting holes or slots. ■ Dynamic spring values at 960 rpm and deflection (sw) of 8mm at nominal loads. ■ It is not recommended to exceed accelerations greater than 9.3g.
 ■ See pages 36 and 37 for additional product and performance data. ■ 1 indicates: sw = oscillating stroke (deflection). ■ * indicates: K = oscillating machine factor.

OSCILLATING MOUNTS

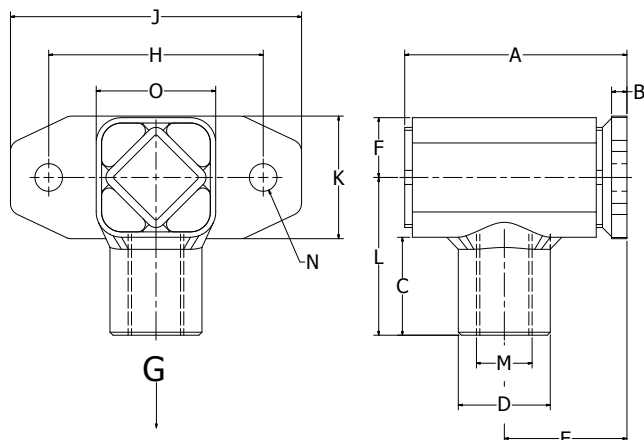
Oscillating Mounts

RSC R



RunRight Oscillation Mounts RSC R

The RunRight Oscillation Mounts RSC R are a single rocker design used on eccentric oscillator drive systems for either supporting or suspending vibratory conveyors, screens, or feeder equipment. The outer housings and inner squares are manufactured out of steel. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Maximum Load Capacity Chart

RSC R Size	Maximum Rocker Load G (Nm)				Maximum revolutions n _s (RPM)*	
	K < 2	K = 2	K = 3	K = 4	α ± 5°	α ± 6°
15	100	75	60	50	640	480
18	200	150	120	100	600	450
27	400	300	240	200	560	420
38	800	600	500	400	530	390
45	1600	1200	1000	800	500	360
50	2500	1800	1500	1200	470	340
60	5000	3600	3000	2400	440	320

Notes: ■*See Allowable Element Frequencies page 6.
 ■ Contact Lovejoy for permissible load values from greater accelerations and for rocker arms with higher load capacities.
 ■ Revolutions are between 300 to 600 RPM with a maximum oscillation angle of ±6°.
 ■ The oscillation angle α of all rockers and the drive head need to be within the allowable range for n_s and α.

Oscillating Mounting Type RSC R

UPC #	Type	G Max lbs (N)	Mdd ft-lbs/° (Nm/°)	Dimensions - Inches (mm)												
				A	B	C	D	E	F	H	J	K	L	M	N	O
68514425158	RSC R15 RH	22.5	0.3	1.97	0.16	1.14	0.87	1.10	0.53	1.97	2.76	0.98	1.57	M10	0.28	1.06
68514425187	RSC R15 LH	(100)	(0.4)	(50)	(4)	(29)	(22)	(28)	(14)	(50)	(70)	(25)	(40)	M10-LH	(7)	(27)
68514424854	RSC R18 RH	45	1.0	2.44	0.20	1.14	0.98	1.34	0.63	2.36	3.35	1.38	1.77	M12	0.37	1.26
68514425188	RSC R18 LH	(200)	(1.3)	(62)	(5)	(29)	(25)	(34)	(16)	(60)	(85)	(35)	(45)	M12-LH	(10)	(32)
68514425160	RSC R27 RH	89.9	1.9	2.87	0.20	1.48	1.38	1.57	0.89	3.15	4.33	1.77	2.36	M16	0.45	1.77
68514425189	RSC R27 LH	(400)	(2.6)	(73)	(5)	(38)	(35)	(40)	(23)	(80)	(110)	(45)	(60)	M16-LH	(11.5)	(45)
68514425161	RSC R38 RH	180	4.9	3.74	0.24	2.09	1.97	2.05	1.18	3.94	5.51	2.36	3.15	M20	0.55	2.36
68514425190	RSC R38 LH	(800)	(6.7)	(95)	(6)	(53)	(50)	(52)	(30)	(100)	(140)	(60)	(80)	M20-LH	(14)	(60)
68514425162	RSC R45 RH	360	8.6	4.72	0.24	2.64	1.89	2.60	1.73	5.12	7.09	2.76	3.94	M24	0.71	3.50
68514425191	RSC R45 LH	(1,600)	(11.6)	(120.0)	(6)	(67)	(48)	(66)	(44)	(130)	(180)	(70)	(100)	M24-LH	(18)	(89)
68514425163	RSC R50 RH	562	15.0	5.71	0.39	2.60	2.36	3.15	1.54	5.51	7.48	3.15	4.06	M36	0.71	3.66
68514425192	RSC R50 LH	(2,500)	(20.4)	(145.0)	(10)	(66)	(60)	(80)	(39)	(140)	(190)	(80)	(103)	M36-LH	(18)	(93)
68514425164	RSC R60 RH	1124	28.2	9.17	0.63	3.11	3.15	5.04	2.01	7.09	9.06	4.72	5.12	M42	0.71	4.00
68514425193	RSC R60 LH	(5,000)	(38.2)	(233.0)	(16)	(79)	(80)	(128)	(51)	(180)	(230)	(120)	(130)	M42-LH	(18)	(102)

Notes: ■ G = Maximum load per element. ■ Mdd = Dynamic element torque @ ±5° in a speed range of 300-600 RPM.
 ■ See pages 36 and 37 for additional product and performance data.

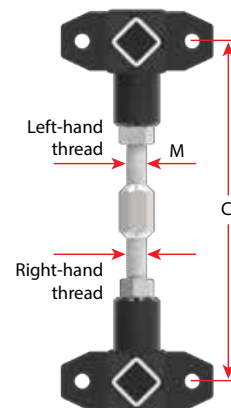
Rocker Oscillation Angle Calculation

Eccentric Radius: R (in)
 Center Distance: C (in)
 Oscillation Angle: α ± (°)

$$\alpha = \arctan\left(\frac{R}{C}\right)$$

Connection Rod

Customers must provide their own connection rods. It is recommended to use both right-handed and left-handed threaded rods with corresponding right-handed and left-handed RSC R Oscillating Mounts. When using both right and left-handed threaded rods, the length of the rockers can be easily adjusted, and lateral sliding of the trough will be avoided. The center distance between housings must be identical for all of the equipment rocker arms. The thread must be engaged in each of the housings, 1.5 times the diameter of the connection rod, as shown in the diagram to the right.



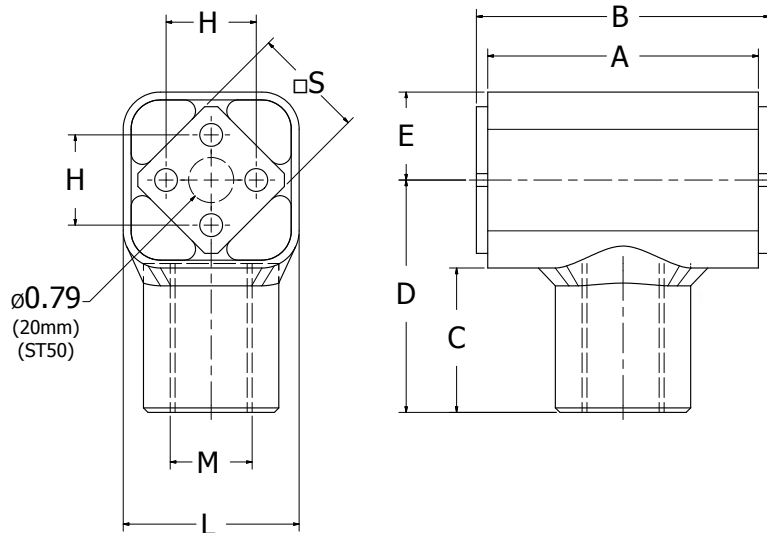
OSCILLATING MOUNTS

Oscillating Mounts

RDH Drive Heads

RunRight RDH Drive Heads

The RunRight RDH is a drive head design which transmits power from an eccentric, through the connecting rod and flexible head, to activate vibratory conveyors, screens, or feeder apparatus and equipment. The outer housings are manufactured steel weldments and the inner squares are aluminum. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



OSCILLATING MOUNTS

Drive Heads Type RDH														
UPC #	Type	F Max lbs (N)	RPM @ Max @ 5°	Dimensions - Inches (mm)										
				A	B	C	D	E	H	J	K	L	M	S
68514425165	RDH 18 RH	90	600	1.97	2.17	1.24	1.77	0.79	0.47	0.24	0.87	1.54	M12	0.71
68514425194	RDH 18 LH	(400)		(50)	(55)	(31.5)	(45)	(20)	(12)	(6)	(22)	(39)	M12LH	(18)
68514425166	RDH 27 RH	225	560	2.36	2.56	1.59	2.36	1.06	0.79	0.31	1.10	2.13	M16	1.06
68514425195	RDH 27 LH	(1,000)		(60)	(65)	(40.5)	(60)	(27)	(20)	(8)	(28)	(54)	M16LH	(27)
68514425167	RDH 38 RH	450	530	3.15	3.54	2.09	3.15	1.46	0.98	0.39	1.65	2.91	M20	1.50
68514425196	RDH 38 LH	(2,000)		(80)	(90)	(53)	(80)	(37)	(25)	(10)	(42)	(74)	M20LH	(38)
68514424851	RDH 45 RH	787	500	3.94	4.33	2.64	3.94	1.73	1.38	0.47	1.89	3.50	M24	1.77
68514425197	RDH 45 LH	(3,500)		(100)	(110)	(67)	(100)	(44)	(35)	(12)	(48)	(89)	M24LH	(45)
68514424852	RDH 50 RH	1,350	470	4.72	5.12	2.76	4.13	1.89	1.57	M12 X	2.36	3.66	M36	1.97
68514425198	RDH 50 LH	(6,000)		(120)	(130)	(69.5)	(105)	(47)	(40)	40	(60)	(93)	M36LH	(50)

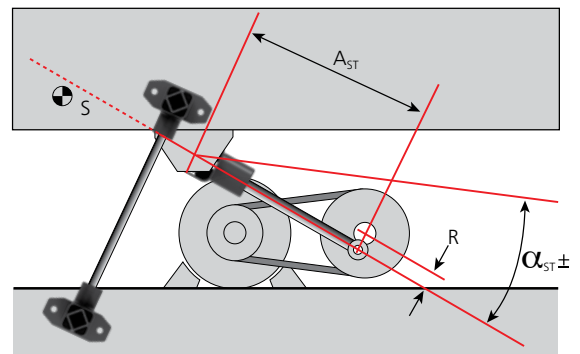
Notes: ■ Higher RPM's can be achieved if the oscillation angle is less than +/-5°. ■ See pages 36 and 37 for additional product and performance data.

Drive Rod Length

The oscillation angle cannot exceed +/-5.7° to meet permissible frequency guidelines. The oscillation angle corresponds to the ratio of R:A_{ST} by 1:10.

ST Oscillation Angle Calculation

Eccentric Radius: R (mm)
Center Distance: A_{ST} (mm)
Oscillation Angle: α_{ST} (°)

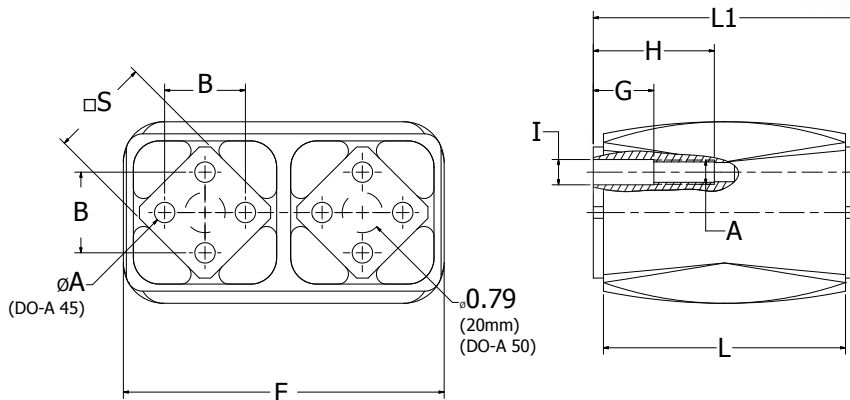
$$\alpha_{ST} = \arcsin\left(\frac{R}{A_{ST}}\right)$$


Oscillating Mounts

RSD A Spring Accumulators

RunRight RSD A Spring Accumulators

The RunRight RSD A are highly dynamic spring accumulators, designed for feeder systems that operate near resonance frequency. They are manufactured with cast iron housings and aluminum inner squares. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.

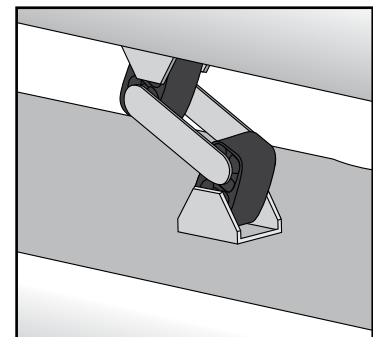


Spring Accumulators Type RSD A													
UPC #	Type	C _s in-lbs (N/mm)	Dimensions - Inches (mm)										
			A	B	D	E	F	I	S	G	H	L	L1
68514425132	RSD A45x100	571 (100)	0.47 (12)	1.38 (35)	3.35 (85)	2.87 (73)	5.90 (150)	—	1.77 (45)	—	—	3.17 (80)	3.54 (90)
68514425133	RSD A45x150	713 (125)								—	—	3.94 (100)	4.33 (110)
68514457671	RSD A50x120	1,084 (190)	M12	1.57 (40)	3.54 (90)	3.07 (78)	6.26 (159)	0.48 (12.25)	1.97 (50)	1.18 (30)	2.36 (60)	4.72 (120)	5.12 (130)
68514484850	RSD A50x160	1,284 (225)								1.18 (30)	2.36 (60)	6.30 (160)	6.69 (170)
68514457672	RSD A50x200	1,827 (320)								1.57 (40)	2.76 (70)	7.87 (200)	8.27 (210)

Notes: ■ C_s = dynamic spring value of the complete accumulator oscillating at an angle of ±5° and between 300-600 RPM (n_s).
 ■ See pages 36 and 37 for additional product and performance data.

1 spring accumulator consists of two (2) RSD A elements.

Operating parameters								
Angle of Oscillation (RSD A series connection)	Accumulator = 2x RSD A45				Accumulator = 2x RSD A50			
	R	sw	Max n _s	Max K	R	sw	Max n _s	Max K
±6°	15.3	30.6	360	2.2	16.4	32.8	340	2.1
±5°	12.8	25.6	500	3.6	13.6	27.2	470	3.4
±4°	10.2	20.4	740	6.2	10.9	21.8	700	6.0



OSCILLATING MOUNTS

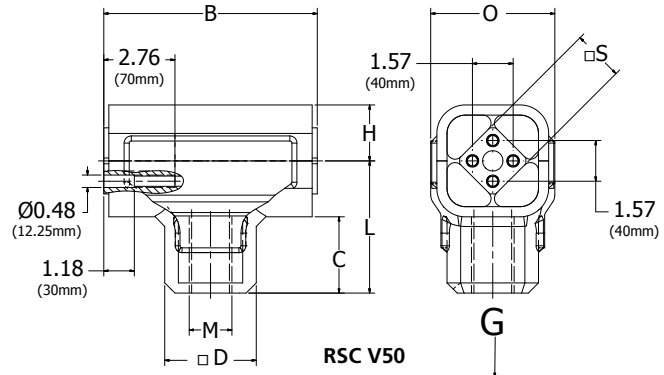
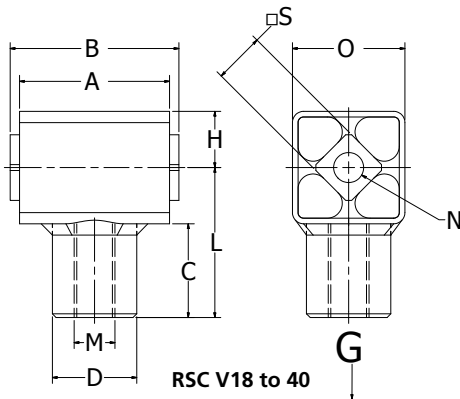
Oscillating Mounts

RSC V



RunRight Oscillation Mounts RSC V

The RunRight Oscillation Mounts RSC V have larger than standard elastomeric elements, and are designed for free-hanging gyratory sifting machines. The outer housings are manufactured steel weldment and the inner squares are aluminum. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Drive Heads Type RSC V

UPC #	Type	G Max lbs (N)	Dimensions - Inches (mm)									
			A	B	C	D	H	L	M	N	O	S
68514463374	RSC V18 RH	135-360 (600-1,600)	2.36 (60)	2.56 (65)	1.59 (40.5)	1.10 (28)	1.06 (27)	1.54 (39)	M16	0.51 (13)	0.71 (54)	2.13 (18)
68514463375	RSC V18 LH								M16LH			
68514463376	RSC V27 RH	290-675 (1,300-3,000)	3.15 (80)	3.54 (90)	2.09 (53)	1.65 (42)	1.46 (37)	2.13 (54)	M20	0.63 (16)	0.71 (74)	2.91 (27)
68514463377	RSC V27 LH								M20LH			
68514463378	RSC V38 RH	585-1,125 (2,600-5,000)	3.94 (100)	4.33 (110)	2.64 (67)	1.89 (48)	1.73 (44)	2.91 (74)	M24	0.79 (20)	0.71 (89)	3.50 (38)
68514463379	RSC V38 LH								M24LH			
68514463940	RSC V40 RH	1,000-1,685 (4,500-7,500)	4.72 (120)	5.12 (130)	2.76 (69.5)	2.36 (60)	1.89 (47)	3.50 (89)	M36	0.79 (20)	0.71 (93)	3.66 (45)
68514463939	RSC V40 LH								M36LH			
68514463382	RSC V50 RH	1,350-3,600 (6,000-16,000)	7.87 (200)	8.28 (210)	3.35 (85)	3.15 (80)	2.36 (59)	3.66 (93)	M42	-	0.71 (116)	4.57 (50)
68514463383	RSC V50 LH								M42LH			

Note: See pages 36 and 37 for additional product and performance data.

Application Example: Free-hanging Sifting Machine

Rocker Oscillation Angle Formula

Eccentric Radius (circular oscillation): R (0.8 in)
 Length of Connection Rod: L (24 in)
 Oscillation Angle (cannot exceed ±2°): β ± (1.9°)

$$\beta = \arctan\left(\frac{R}{L}\right)$$

Required Load For Each Suspension Rod Formula

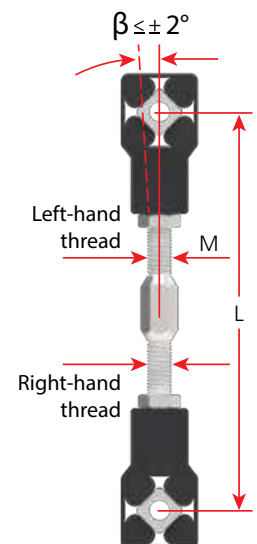
Oscillating Mass Including Material: m (1,764 lb)
 Number of Suspension Rods: s (4)
 Load per Suspension Rod: G (441 lb)
 Maximum Load Capacity per Suspension Rod: G Max (674 lb)

$$G = \left(\frac{m}{s}\right)$$

Eight RSC V27 Oscillating Mounts are required for this application.

Connection Rod

Customers must provide their own connection rods. It is recommended to use both right-handed and left-handed threaded rods with corresponding right-handed and left-handed RSC V Oscillating Mounts. When using both right and left-handed threaded rods, the length of the rockers can be easily adjusted and lateral sliding of the trough will be avoided. The center distance between housings must be identical for all of the equipment rocker arms. The thread must be engaged in each of the housings, 1.5 times the diameter of the connection rod, as shown in the diagram to the right.



OSCILLATING MOUNTS

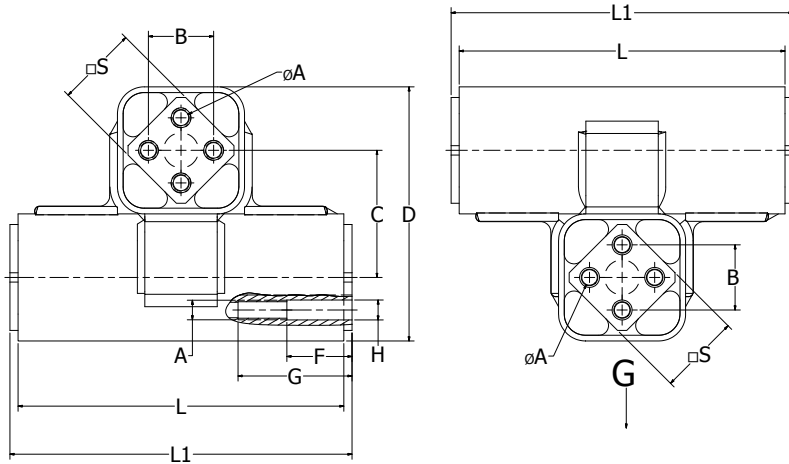
Oscillating Mounts

RSC UJ



RunRight Oscillation Mounts RSC UJ

The RunRight Oscillation Mounts RSC UJ are designed for supporting or suspending gyratory sifting machines. The outer housings and inner squares are manufactured out of aluminum. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Universal Joints Type RSC UJ														
UPC #	Type	G load Max in lbs (N)			Dimensions - Inches (mm)									
		Hanging	Crank driven	Free oscillating	A	B	C	D	F	G	H	L	L1	S
68514425220	RSC UJ15	36 (160)	29 (128)	18 (80)	0.20 (5)	0.39 (10)	1.06 (27)	2.13 (54)	—	—	—	2.36 (60)	2.56 (65)	0.59 (15)
68514425221	RSC UJ18	67 (300)	54 (240)	34 (150)	0.24 (6)	0.47 (12)	1.26 (32)	2.52 (64)	—	—	—	3.15 (80)	3.35 (85)	0.71 (18)
68514425222	RSC UJ27	180 (800)	144 (640)	90 (400)	0.31 (8)	0.79 (20)	1.77 (45)	3.54 (90)	—	—	—	3.94 (100)	4.13 (105)	1.06 (27)
68514425223	RSC UJ38	360 (1,600)	288 (1,280)	180 (800)	0.39 (10)	0.98 (25)	2.36 (60)	4.72 (120)	—	—	—	4.72 (120)	5.12 (130)	1.50 (38)
68514425224	RSC UJ45	670 (3,000)	540 (2,400)	335 (1,500)	0.47 (12)	1.38 (35)	2.95 (75)	5.91 (150)	—	—	—	5.91 (150)	6.30 (160)	1.77 (45)
68514425225	RSC UJ50	1,260 (5,600)	1,010 (4,480)	630 (2,800)	M12	1.57 (40)	3.07 (78)	6.14 (156)	1.58 (40)	2.76 (70)	0.48 (12.25)	7.87 (200)	8.27 (210)	1.97 (50)
68514425226	RSC UJ60	2,250 (10,000)	1,800 (8,000)	1,125 (5,000)	M16	1.77 (45)	3.94 (100)	7.87 (200)	1.97 (50)	3.15 (80)	0.65 (16.5)	11.81 (300)	12.20 (310)	2.36 (60)
68514425227	RSC UJ80	4,500 (20,000)	3,600 (16,000)	2,250 (10,000)	M20	2.36 (60)	5.35 (136)	10.71 (272)	1.97 (50)	3.54 (90)	0.81 (20.5)	15.75 (400)	16.14 (410)	3.15 (80)
68514457674	RSC UJ100-4	6,750 (30,000)	5,400 (24,000)	3,375 (15,000)	M24	2.95 (75)	6.69 (170)	13.39 (340)	1.97 (50)	3.94 (100)	0.98 (25)	15.75 (400)	16.14 (410)	3.94 (100)
68514457675	RSC UJ100-5	9,000 (40,000)	7,200 (32,000)	4,500 (20,000)	M24	2.95 (75)	6.69 (170)	13.39 (340)	1.97 (50)	3.94 (100)	0.98 (25)	19.68 (500)	20.08 (510)	3.94 (100)

Notes: ■ G is the maximum load per support. ■ Drive speed should not exceed 380 RPM (n_s). ■ Oscillation angle should not exceed ±3.5°. ■ Operating requirements should not exceed recommendations on Allowable Element Frequencies page 6. ■ See pages 36 and 37 for additional product and performance data.

Application Example: Supported Sifter with Positive Crank Drive

Rocker Oscillation Angle Formula

Eccentric Radius (circular oscillation): R (1 in)
 Length of Connection Rod: L (24 in)
 Revolutions: n_s (240 RPM)
 Oscillation Angle (cannot exceed ±3.5°): α ± (2.4°)

$$\alpha = \arctan\left(\frac{R}{L}\right)$$

Required Load For Each Suspension Rod Formula

Oscillating Mass Including Material: m (3,500 lb)
 Number of Suspension Rods: s (4)
 Load per Suspension Rod: G (875 lb)
 Maximum Load Capacity per Suspension Rod: G Max (1,010 lb)
 Eight RSC UJ50 Oscillating Mounts are required for this application.

$$G = \left(\frac{m}{s}\right)$$

RunRight[®]

by **Lovejoy**



RUBBER SUSPENSION

Rubber Suspension Units

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WARNING

Failure to follow these cautions could create a risk of injury.

You must refer to page 8 for Important Safety Instructions and Precautions for the selection and use of these products.
Failure to follow the instructions and precautions can result in severe injury or death.

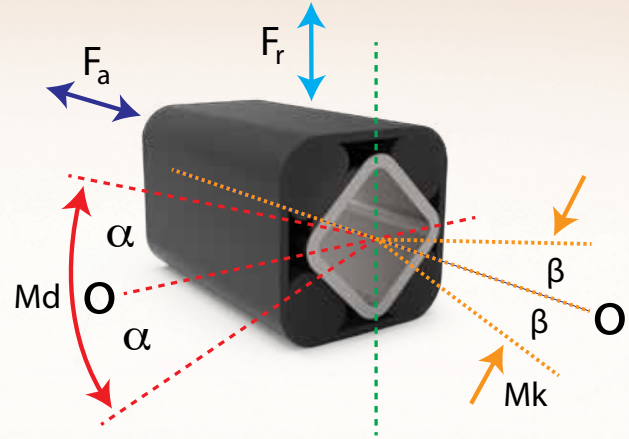
Rubber Suspension Units Selection Guide

		Inner Square Type			Accessories for Housings Zinc Plated Steel
		A Size 15-50 = Aluminum Size 60+ = Steel	C Aluminum	S Steel Tube	
Outer Housing Type	RSS Steel Tube	RSS A15 to 50  See page 54	RSS C15 to 50  See page 54	RSS S11 to 50  See page 55	RBS 11 to RBS 50 Clamp  See page 55
	RSR Aluminum	RSR A15 to 50  See page 56	RSR C  Special Request Only	RSR S11 to 50  See page 56	RBR 11 to RBR 50 Clamp  See page 56
	RSF Cast Iron	RSF A15 to 50  See pages 57 & 58	RSF C15 to 38  See page 57	RSF S15 to 50  Special Request Only	Accessories for Inner Square Type A Zinc Plated Steel
	RSF Steel Weldment	RSF A15 to 100  See pages 57 & 58	RSF C45 to 100  Special Request Only	RSF S45-100  Special Request Only	
	RSD Cast Iron	RSD A15 to 50  See page 59	RSD C15 to 50  Special Request Only	RSD S15 to 50  Special Request Only	RLB 11 to RLB 50 Bracket  See page 60
	RSD Steel Weldment	RSD A15 to 45  See page 59	RSD C15 to 50  Special Request Only	RSD S15 to 50  Special Request Only	
	Notes:	<ul style="list-style-type: none"> ■ Recommended for applications that oscillate more than $\pm 10^\circ$ across the neutral element position. ■ Sizes 15 through 45 are fastened using nuts and bolts that reach completely through the inner square. ■ Sizes 50 and up are fastened using bolts threaded into each end of the inner square. 	<ul style="list-style-type: none"> ■ Recommended for applications that do not oscillate more than $\pm 10^\circ$ across the neutral element position. ■ Elements are friction locked into place by a single center bolt, allowing for 360° positioning. 	<ul style="list-style-type: none"> ■ Recommended for Plug-In connection with the inner square. ■ Plug-In length must be a min. of 2x the width across the flats of the inner square. ■ The Plug-In connections are NOT recommended for applications that experience back and forth oscillations across the neutral element position. 	
<ol style="list-style-type: none"> 1. DO NOT weld the rubber suspension units. The heat will affect or destroy the rubber elements. Please contact Lovejoy for customized units. 2. Many of the rubber suspension units can be supplied in stainless steel, zinc plated or painted for your specific application. Please contact Lovejoy for customized units. 3. Mounting hardware must have a minimum strength Class of 8.8. 					

Rubber Suspension Units Torque Chart

RunRight Rubber Suspension Units Torque Chart

The chart below gives statically measured torques at a specific force and deflection for the Tensys™ 10 rubber used in the RunRight Rubber Suspension units. If needed, other values can be interpolated. Please contact Lovejoy for applications that have combined dynamic forces and high oscillation angles, or refer to pages 4 to 7 in this catalog.



Element			Torque						Cardanic	Radial		Axial	
Nominal size	x	Length	Md [Nm] angle ±α°						Mk [Nm] angle ±β°	Deflection ± s _r	Load F _r	Deflection ± s _a	Load F _a
			5°	10°	15°	20°	25°	30°	1°	[mm]	[N]	[mm]	[N]
11	x	20	0.3	0.8	1.3	2.0	2.9	4.0	0.4	0.25	200	0.25	60
11	x	30	0.4	1.2	2.0	3.1	4.3	6.0	1.1		340		80
11	x	50	0.7	2.0	3.4	5.1	7.2	10.0	5.6		600		150
15	x	25	0.7	1.6	2.6	4.0	5.7	8.2	0.6	0.25	200	0.25	70
15	x	40	1.1	2.5	4.2	6.4	9.2	13.2	2.0		300		100
15	x	60	1.6	3.8	6.3	9.6	13.8	19.8	5.5		500		160
18	x	30	1.9	4.5	7.5	11.0	15.0	20.6	1.6	0.25	400	0.25	80
18	x	50	3.2	7.5	12.5	18.3	25.0	34.4	7.0		700		160
18	x	80	5.1	12.0	20.0	29.3	40.0	55.0	28.0		1,000		300
27	x	40	4.7	10.7	17.5	26.9	39.5	57.0	3.8	0.5	800	0.50	200
27	x	60	7.0	16.0	26.3	40.3	59.3	85.5	11.5		1,300		300
27	x	100	11.7	26.7	43.8	67.2	98.8	142.5	48.0		2,400		600
38	x	60	13.0	30.4	50.6	78.0	113.0	162.0	11.4	0.5	1,500	0.50	300
38	x	80	17.3	40.5	67.5	104.0	151.0	216.0	24.7		2,000		500
38	x	120	26.0	60.8	101.2	156.0	226.0	324.0	76.0		3,000		600
45	x	80	27.6	62.4	104.0	160.0	222.0	320.0	28.0	0.5	1,900	0.50	560
45	x	100	34.5	78.0	130.0	200.0	278.0	400.0	54.0		3,000		700
45	x	150	51.8	117.0	195.0	300.0	420.0	600.0	140.0		4,800		1,000
50	x	120	51.0	133.0	250.0	395.0	570.0	780.0	80.0	0.5	2,800	0.50	800
50	x	160	77.0	197.0	363.0	570.0	820.0	1,115.0	145.0		4,500		950
50	x	200	102.0	260.0	475.0	745.0	1,070.0	1,450.0	250.0		6,300		1,100
50	x	300	150.0	385.0	700.0	1,100.0	1,590.0	2,160.0	1,200.0	1.0	8,600	1.00	2,200
60	x	150	75.0	170.0	300.0	460.0	700.0	1,010.0	90.0		5,400		1,600
60	x	200	95.0	220.0	385.0	610.0	930.0	1,380.0	250.0		7,200		2,200
60	x	300	140.0	365.0	630.0	995.0	1,550.0	2,240.0	900.0	1.0	9,400	1.00	3,200
70	x	200	140.0	380.0	650.0	1,040.0	1,490.0	2,120.0	280.0		9,000		2,200
70	x	300	190.0	525.0	910.0	1,470.0	2,160.0	3,150.0	1,200.0		12,000		3,600
70	x	400	250.0	765.0	1,315.0	2,160.0	3,175.0	4,750.0	2,200.0	1.0	14,000	1.00	4,000
80	x	200	200.0	500.0	850.0	1,300.0	1,900.0	2,700.0	680.0		10,000		2,500
80	x	300	300.0	800.0	1,300.0	2,000.0	2,900.0	4,100.0	1,500.0		1.0		15,000
80	x	400	400.0	1,060.0	1,800.0	2,800.0	3,900.0	5,600.0	4,600.0	19,000		4,700	
100	x	250	400.0	1,080.0	1,800.0	2,800.0	4,100.0	6,300.0	1,200.0	1.0		15,000	1.00
100	x	400	640.0	1,700.0	2,900.0	4,500.0	6,600.0	10,000.0	4,300.0		28,000	5,800	
100	x	500	800.0	2,160.0	3,600.0	5,600.0	8,200.0	12,000.0	8,000.0		38,000	7,500	

RUBBER SUSPENSION

Rubber Suspension Units

RSS A, RSS C

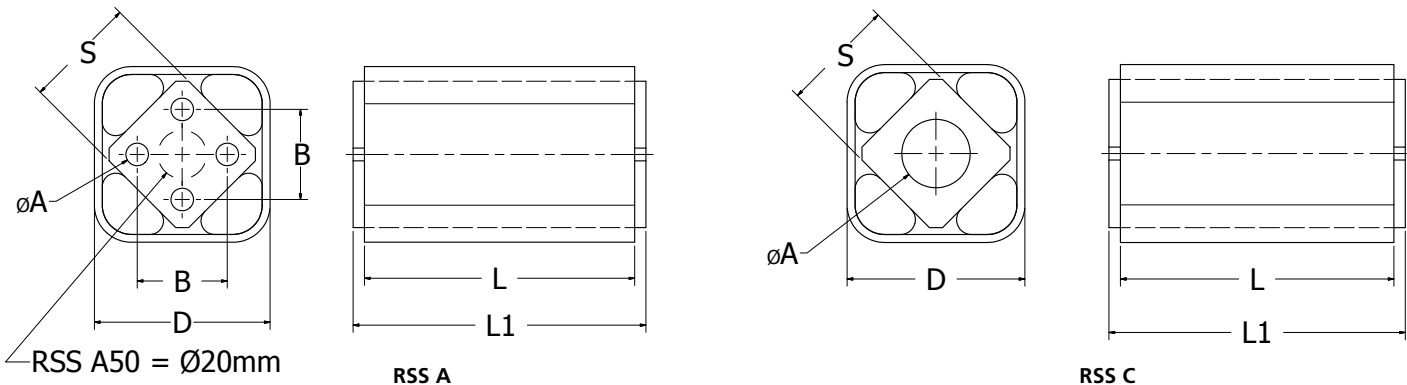
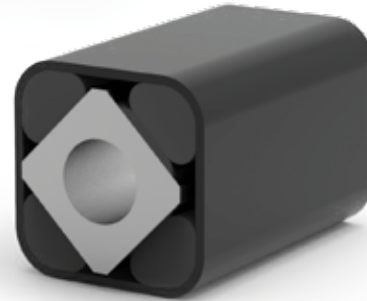
RunRight Rubber Suspension Unit RSS A

The RunRight Rubber Suspension Unit RSS A has 4 bore holes in the inner square and is designed to transmit alternating motions from the neutral position. A bolt through either two, or all four of the bore holes, can be used to mount a lever to either one or both sides of the unit. They are manufactured with steel housings and an aluminum inner square. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



RunRight Rubber Suspension Unit RSS C

The RunRight Rubber Suspension Unit RSS C has one central bore and can be positioned between 0° and 360°. The frictional force of this unit guarantees a secure connection of the lever arms in any position. They are manufactured with steel housings and an aluminum inner square. They have standard Tensys 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Rubber Suspension Units RSS A, RSS C

RSS A		RSS C		Dimensions - Millimeters						
UPC #	Type	Dimensions - Millimeters		UPC #	Type	Dimensions - Millimeters	D	S	L	L1
		A	B							
68514425013	RSS A15x25	5	10	68514463628	RSS C15x25	10	27	15	25	30
68514425014	RSS A15x40			68514463629	RSS C15x40				40	45
68514417485	RSS A15x60			68514463630	RSS C15x60				60	65
68514424839	RSS A18x30	6	12	68514463631	RSS C18x30	13	32	18	30	35
68514425017	RSS A18x50			68514463632	RSS C18x50				50	55
68514425018	RSS A18x80			68514463633	RSS C18x80				80	85
68514425019	RSS A27x40	8	20	68514437571	RSS C27x40	16	45	27	40	45
68514425020	RSS A27x60			68514437572	RSS C27x60				60	65
68514417487	RSS A27x100			68514437573	RSS C27x100				100	105
68514425022	RSS A38x60	10	25	68514437574	RSS C38x60	20	60	38	60	70
68514425023	RSS A38x80			68514437575	RSS C38x80				80	90
68514425024	RSS A38x120			68514437576	RSS C38x120				120	130
68514484305	RSS A45x80	12	35	68514463634	RSS C45x80	24	75	45	80	90
68514484306	RSS A45x100			68514463635	RSS C45x100				100	110
68514484307	RSS A45x150			—	—				150	160
68514484308	RSS A50x120	M12x40	40	68514463834	RSS C50x120	30	78	50	120	130
68514484309	RSS A50x200			68514463924	RSS C50x200				200	210
68514484310	RSS A50x300			—	—				300	310

Note: ■ See pages 52 and 53 for additional product and performance data.

RUBBER SUSPENSION

Rubber Suspension Units

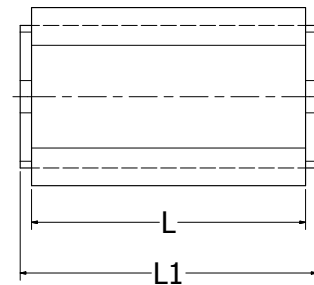
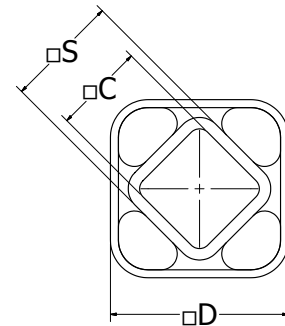
RSS S, RBS Clamps

RunRight Rubber Suspension Unit RSS S

The RunRight Rubber Suspension Unit RSS S is perfect for square lever arms. The length of the inserted lever arm needs to be three times that of dimension C, as shown in the drawing to the right. Only one through-bolt is required on the smaller units through the RSS S18. Frictional force is used to secure the lever arms at any position within 360°. They are manufactured with steel housings and inner squares. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.

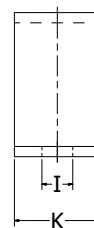
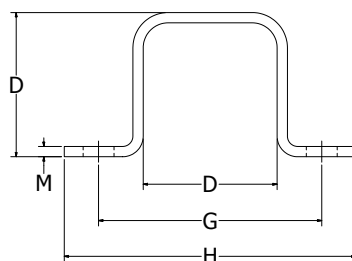


Rubber Suspension Units RSS S						
UPC #	Type	Dimensions - Millimeters				
		C	D	S	L	L1
68514425031	RSS S11x20	8	20	11	20	25
68514425032	RSS S11x30				30	35
68514425033	RSS S11x50				50	55
68514425034	RSS S15x25	11	27	15	25	30
68514425035	RSS S15x40				40	45
68514425036	RSS S15x60				60	65
68514425037	RSS S18x30	12	32	18	30	35
68514425038	RSS S18x50				50	55
68514425039	RSS S18x80				80	85
68514425040	RSS S27x40	22	45	27	40	45
68514425041	RSS S27x60				60	65
68514425042	RSS S27x100				100	105
68514425043	RSS S38x60	30	60	38	60	70
68514425044	RSS S38x80				80	90
68514425045	RSS S38x120				120	130
68514484060	RSS S45x80	35	75	45	80	90
68514425047	RSS S45x100				100	110
68514484064	RSS S45x150				150	160
68514425049	RSS S50x120	40	78	50	120	130
68514425050	RSS S50x200				200	210
68514425051	RSS S50x300				300	310



RunRight RBS Clamps

The RunRight RBS Clamp is for positioning and securing all RSS suspension units. These steel clamps are supplied separately and do not include bolts. Lovejoy recommends using two or more clamps on the longer RSS suspension units.



RBS Clamps							
UPC #	Type	Dimensions - Millimeters					
		D	G	H	I	K	M
68514425000	RBS 11	20	37	50	6	20	2.0
68514425001	RBS 15	27	50	65	7	25	2.0
68514424840	RBS 18	32	60	80	9	30	2.5
68514425003	RBS 27	45	80	105	11	35	3.0
68514425004	RBS 38	60	100	125	13	40	4.0
68514424664	RBS 45	75	120	150	13	45	5.0
68514463479	RBS 50	78	130	175	18	50	6.0

Note: ■ See pages 52 and 53 for additional product and performance data.

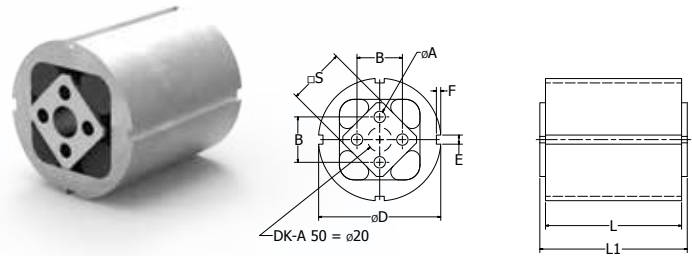
Rubber Suspension Units

RSR A, RSR S, RBR Clamps



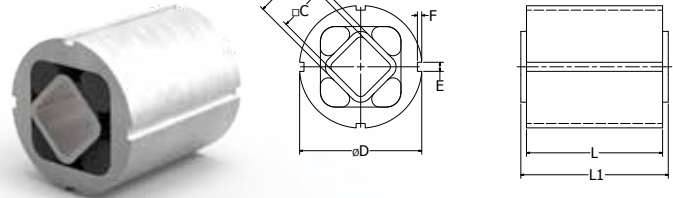
RunRight Rubber Suspension Unit RSR A

The RunRight Rubber Suspension Unit RSR A has 4 bore holes in the inner square and is designed to transmit alternating motions from the neutral position. A bolt through either two, or all four of the bore holes, can be used to mount a lever to either side of the unit. They are manufactured with aluminum housings and inner squares. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



RunRight Rubber Suspension Unit RSR S

The RunRight Rubber Suspension Unit RSR S is perfect for square lever arms. The length of the inserted lever arm needs to be three times that of dimension C, as shown in the drawing to the right. This kind of connection is great for plus or minus angular motions. These units cannot take alternating motions across the neutral axis. They are manufactured with aluminum housings and steel inner squares. They have standard Tensys 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



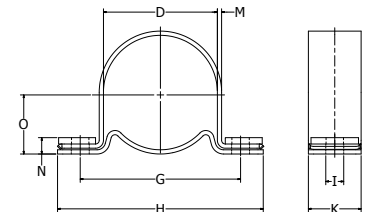
Rubber Suspension Units RSR A, RSR S

RSR A		Dimensions - Millimeters		RSR S		Dimensions - Millimeters		Dimensions - Millimeters				
UPC #	Type	A	B	UPC #	Type	C	D	E	F	S	L	L1
				68514425095	RSR S11x20	8	28	4	2.5	11	20	25
				68514425096	RSR S11x30							
				68514425097	RSR S11x50							
68514425080	RSR A15x25	5	10	68514425098	RSR S15x25	11	36	5	2.5	15	25	30
68514425081	RSR A15x40			68514425099	RSR S15x40							
68514425082	RSR A15x60			68514425100	RSR S15x60							
68514425083	RSR A18x30	6	12	68514425101	RSR S18x30	12	45	5	2.5	18	30	35
68514425084	RSR A18x50			68514425102	RSR S18x50							
68514424855	RSR A18x80			68514425103	RSR S18x80							
68514425086	RSR A27x40	8	20	68514425104	RSR S27x40	22	62	6	3.0	27	40	45
68514425087	RSR A27x60			68514425105	RSR S27x60							
68514425088	RSR A27x100			68514425106	RSR S27x100							
68514425089	RSR A38x60	10	25	68514425107	RSR S38x60	30	80	7	3.5	38	60	70
68514425090	RSR A38x80			68514425108	RSR S38x80							
68514425091	RSR A38x120			68514425109	RSR S38x120							
68514425092	RSR A45x80	12	35	68514425110	RSR S45x80	35	95	8	4.0	45	80	90
68514425093	RSR A45x100			68514425111	RSR S45x100							
68514425094	RSR A45x150			68514425112	RSR S45x150							
68514446319	RSR A50x120	M12x40	40	68514446321	RSR S50x120	40	108	8	4.0	50	120	130
68514446317	RSR A50x200			68514446320	RSR S50x200							
68514446316	RSR A50x300			68514446318	RSR S50x300							

Note: ■ See pages 52 and 53 for additional product and performance data.

RunRight RBR Clamps

The RunRight RBR Clamp is for positioning and securing all RSR suspension units using the frictional force created between the double clamps. These steel clamps are supplied separately and do not include bolts. Lovejoy recommends using two or more clamps on the longer RSR suspension units.



RBR Clamps

UPC #	Type	Dimensions - Millimeters							
		D	G	H	I	K	M	N	O
68514425113	RBR 11	28	45	60	6.5	20	1.5	6	15.5
68514425114	RBR 15	36	55	75	6.5	25	2.0	7	20.0
68514425115	RBR 18	45	68	90	8.5	30	2.0	8	24.5
68514425116	RBR 27	62	92	125	10.5	35	2.5	10	33.5
68514425117	RBR 38	80	115	150	12.5	40	3.0	11	43.0
68514424451	RBR 45	95	130	165	12.5	45	4.0	14	51.5
68514446315	RBR 50	108	152	195	16.5	50	4.0	15	58.0



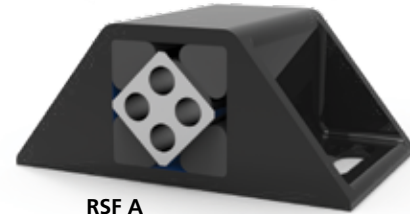
Rubber Suspension Units

RSF A15 to 38, RSF C15 to 38



RunRight Rubber Suspension Unit RSF A15 to 38

The RunRight Rubber Suspension Unit RSF A has 4 bore holes in the inner square and the brackets are welded to the housing. They are designed to transmit alternating motions from the neutral position. A bolt through either two, or all four of the bore holes, can be used to mount a lever to either one or both sides of the unit. They are manufactured with cast iron or steel housings and aluminum inner squares, see chart below. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



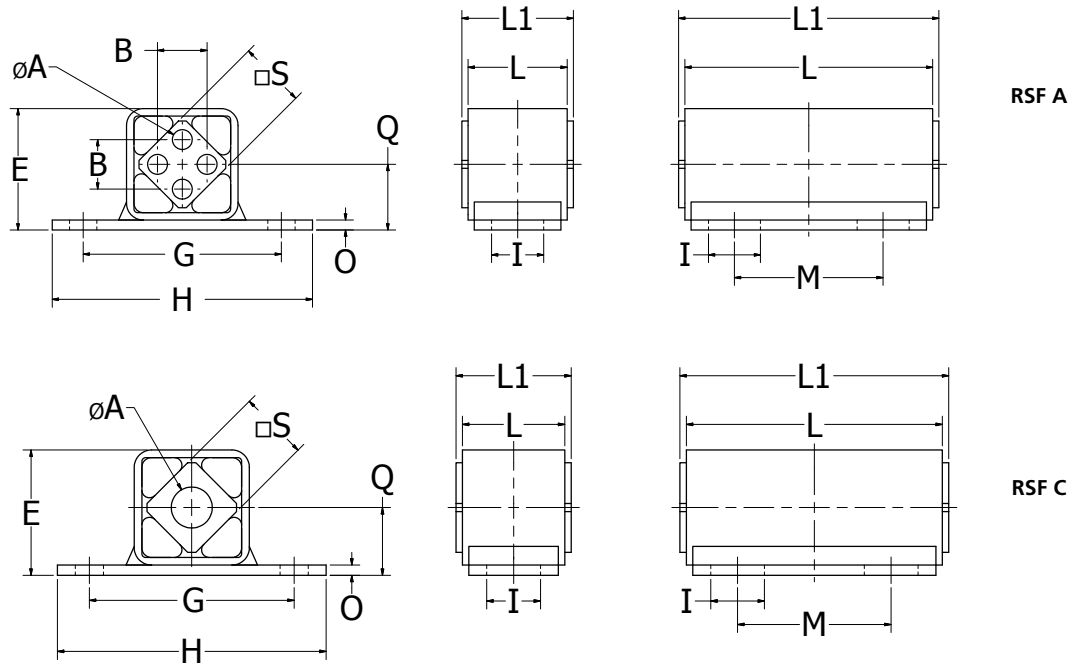
RSF A



RSF C

RunRight Rubber Suspension Unit RSF C15 to 38

The RunRight Rubber Suspension Unit RSF C has one central bore, allowing a lever arm to be positioned between 0° and 360°, and the brackets are welded to the housing. The frictional force of this unit guarantees a secure connection of the lever arms in any position. They are manufactured with cast iron or steel housings and aluminum inner squares, see chart below. They have standard Tensys 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



RSF A

RSF C

Rubber Suspension Units RSF A, RSF C

RSF A		RSF C		Dimensions - Millimeters											Construction		
UPC #	Type	Dimension-Millimeters		UPC #	Type	Dimension-Millimeters	E	G	H	I	O	Q	S	L		L1	M
		A	B														
68514480069	RSF A15x25	5	10	68514480081	RSF C15x25	10	29.5	50	65	7 x 12	2.5	16.0	15	25	30	—	Steel
68514480070	RSF A15x40			28.0	66		7 x 22		3.0	14.0	40	45		—	Cast Iron		
68514480071	RSF A15x60			29.5	65		7 x 12		2.5	16.0	60	65		40	Steel		
68514480072	RSF A18x30	6	12	68514480084	RSF C18x30	13	35.0	60	80	9 x 16.5	3.5	19.0	18	30	35	—	Steel
68514480073	RSF A18x50			34.0	9 x 30		4.0		17.0	50	55	—		Cast Iron			
68514480074	RSF A18x80			35.0	9 x 16.5		3.5		19.0	80	85	50		Steel			
68514480075	RSF A27x40	8	20	68514480087	RSF C27x40	16	49.0	80	105	11 x 21	4.0	26.5	27	40	45	—	Steel
68514480076	RSF A27x60			48.0	11 x 31		5.0		24.5	60	65	—		Cast Iron			
68514480077	RSF A27x100			49.0	11 x 21		4.0		26.5	100	105	60		Steel			
68514480078	RSF A38x60	10	25	68514480090	RSF C38x60	20	65.0	100	125	13 x 28	5.0	35.0	38	60	70	—	Steel
68514480079	RSF A38x80			64.0	13 x 25.4		6.0		32.0	80	90	40		Cast Iron			
68514480080	RSF A38x120			65.0	13 x 28		5.0		35.0	120	130	80		Steel			

Note: ■ See pages 52 and 53 for additional product and performance data.

Rubber Suspension Units

RSF A45 to 50, RSF A60 to 100



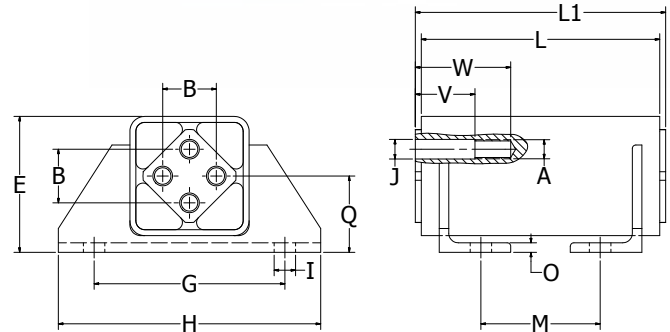
RunRight Rubber Suspension Unit RSF A45 to 50

The RunRight Rubber Suspension Unit RSF A has 4 bore holes in the inner square and the brackets are integral to the housing. They are designed for transmitting alternating motions from the neutral position. A bolt through either two, or all four of the bore holes, can be used to mount a lever to either one or both sides of the unit. They are manufactured with cast iron or steel housings and aluminum inner squares, see chart below. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



RunRight Rubber Suspension Unit RSF A60 to 100

The RunRight Rubber Suspension Unit RSF A has 4 bore holes in the inner square and the brackets are welded to the housing. They are designed for transmitting alternating motions from the neutral position. A bolt through either two, or all four of the bore holes, can be used to mount a lever to either one or both sides of the unit. They are manufactured with steel housings and inner squares. They have standard Tensys 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Rubber Suspension Units RSF A45 to 50														
UPC #	Type	A	B	E	G	H	I	O	Q	S	L	L1	M	Construction
68514463923	RSF A45x100	12	35	77.0	80	115	13 x 30.5	7	38	45	100	110	40	Cast Iron
68514463636	RSF A50x120	M12x40	40	83.5	130	178	18 x 38	8	35	50	120	130	50	Cast Iron
68514484320	RSF A50x160			78.0			18 x 30		32		160	170	70	Steel
68514463637	RSF A50x200			83.5			18 x 30		41		200	210	70	Cast Iron

Rubber Suspension Units RSF A60 to 100																	
UPC #	Type	A	B	E	G	H	I	J	O	Q	S	V	W	L	L1	M	Construction
68514484258	RSF A60x150	M16	45	115	160	220	18	16.5	8	65	60	40	70	150	160	60	Steel
68514484259	RSF A60x200											50	80	200	210	100	Steel
68514484260	RSF A60x300											50	80	300	310	200	Steel
68514484261	RSF A70x200	M20	50	140	200	260	22	20.5	9	80	70	50	90	200	210	100	Steel
68514484262	RSF A70x300													300	310	200	Steel
68514484263	RSF A70x400													400	410	300	Steel
68514484264	RSF A80x200	M20	60	153	220	280	22	20.5	10	85	80	50	90	200	210	80	Steel
68514484265	RSF A80x300													300	310	180	Steel
68514484266	RSF A80x400													400	410	280	Steel
68514484267	RSF A100x250	M24	75	195	300	380	26	25.0	12	110	100	50	100	250	260	110	Steel
68514484268	RSF A100x400													400	410	260	Steel
68514484269	RSF A100x500													500	510	360	Steel

Note: ■ See pages 52 and 53 for additional product and performance data.

Rubber Suspension Units

RSD A15 to 45, RSD A50

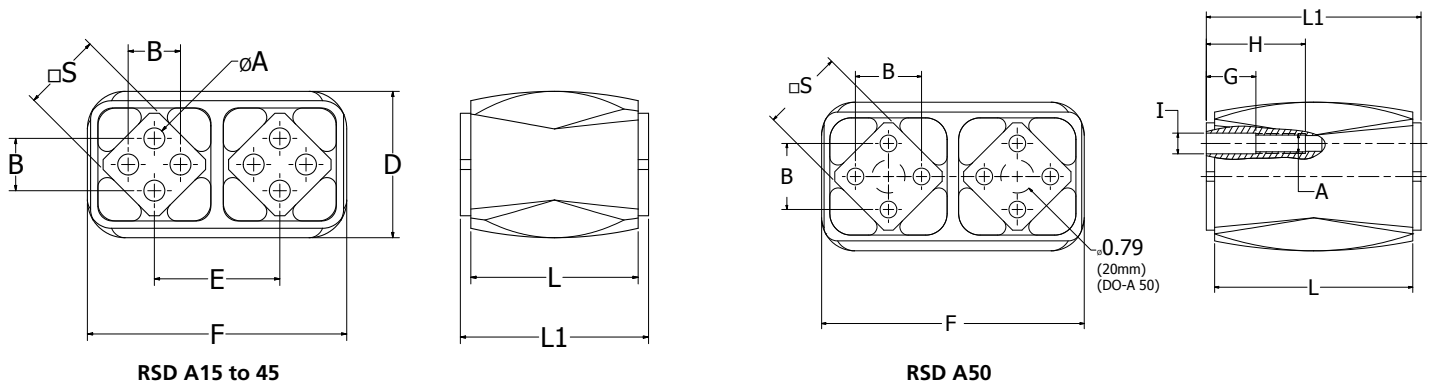
RunRight Rubber Suspension Units RSD A15 to 45

The RunRight Rubber Suspension Unit RSD A has 4 bore holes in each of the inner squares. They are designed for transmitting alternating motions from the neutral position. A bolt through either two, or all four of the bore holes, can be used to mount a lever to either one or both sides of the unit. They are manufactured with cast iron or steel weldment housings and aluminum inner squares, see chart below. They have standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



RunRight Rubber Suspension Unit RSD A50

The RunRight Rubber Suspension Unit RSD A50 has 4 bore holes in each of the inner squares. They are designed for transmitting alternating motions from the neutral position. A bolt through either two, or all four of the bore holes, can be used to mount a lever to either one or both sides of the unit. They are manufactured with cast iron housings and aluminum inner squares. They have standard Tensys 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Rubber Suspension Units RSD A												
UPC #	Type	A	B	D	E	F	S	G	H	L	L1	Construction
68514425119	RSD A15x25	5	10	30	26	55	15	—	—	25	30	Cast Iron
68514425120	RSD A15x40			40	45	Cast Iron						
68514425121	RSD A15x60			60	65	Steel Weldment						
68514425122	RSD A18x30	6	12	36	31	66	18	—	—	30	35	Cast Iron
68514425123	RSD A18x50			50	55	Cast Iron						
68514425124	RSD A18x80			80	85	Steel Weldment						
68514425125	RSD A27x40	8	20	49	45	93	27	—	—	40	45	Cast Iron
68514425126	RSD A27x60			60	65	Cast Iron						
68514425127	RSD A27x100			100	105	Steel Weldment						
68514425128	RSD A38x60	10	25	70	60	124	38	—	—	60	70	Cast Iron
68514425129	RSD A38x80			80	90	Cast Iron						
68514425130	RSD A38x120			120	130	Steel Weldment						
68514425131	RSD A45x80	12	35	84	72	148	45	—	—	80	90	Cast Iron
68514425132	RSD A45x100			100	110	Cast Iron						
68514425133	RSD A45x150			150	160	Steel Weldment						
68514457671	RSD A50x120	M12x40	40	90	78	164	50	30	60	120	130	Cast Iron
68514484850	RSD A50x160							30	60	160	170	Cast Iron
68514457672	RSD A50x200							40	70	200	210	Cast Iron

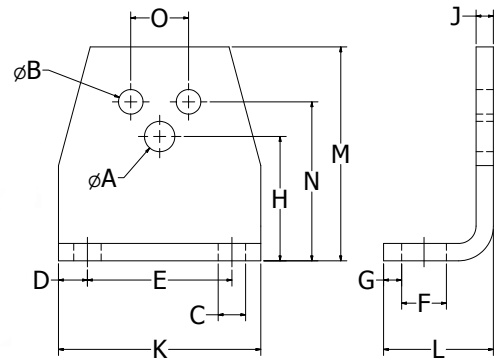
Note: ■ See pages 52 and 53 for additional product and performance data.

RUBBER SUSPENSION

Rubber Suspension Units Accessories - RLB Brackets

RunRight RLB Brackets

The RunRight RLB Bracket offers easy assembly to equipment for the RSS A, RSR A and RSD A Rubber Suspension Units by attaching to the bore holes of the inner squares. The base of the bracket can be positioned in either direction.



RLB Brackets																	
UPC #	Type	Fit for RT Tensioners			Fit for RSS A, RSR A, and RSF A				Dimensions - Millimeters								
		RT Size	A	H	Element Size	B	N	O	C	D	E	F	G	J	K	L	M
68514425200	RLB 11-15	11	6.5	27	15	5.5	35	10	7.0	7.5	30	13.0	11.5	4	45	30	46
68514425201	RLB 15-18	15	8.5	34	18	6.5	44	12	7.0	7.5	40	13.0	13.5	5	55	32	58
68514425202	RLB 18-27	18	10.5	43	27	8.5	55	20	9.5	10.0	50	15.5	16.5	6	70	38	74
68514425203	RLB 27-38	27	12.5	57	38	10.5	75	25	11.5	12.5	65	21.5	21.0	8	90	52	98
68514425204	RLB 38-45	38	16.5	66	45	12.5	85	35	14.0	15.0	80	24.0	21.0	8	110	55	116
68514425205	RLB 45-50	45	20.5	80	50	12.5	110	40	18.0	20.0	100	30.0	26.0	10	140	66	140

Anti-Vibration Mounts

Inside this section:

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Selection Guide.....	63
Anti-Vibration Mounts Technology Overview.....	63
Anti-Vibration Mounts Model: RAV D.....	64-65
Anti-Vibration Mounts Model: RAV.....	66



WARNING

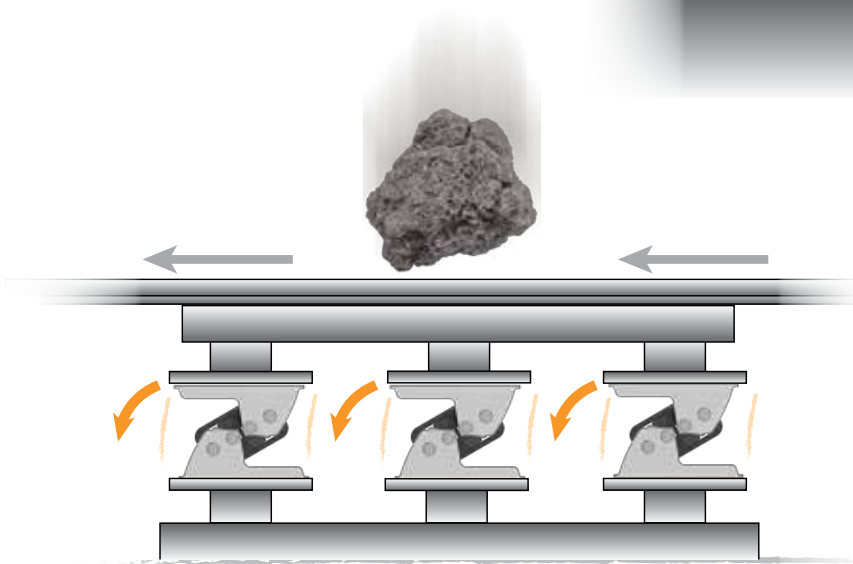
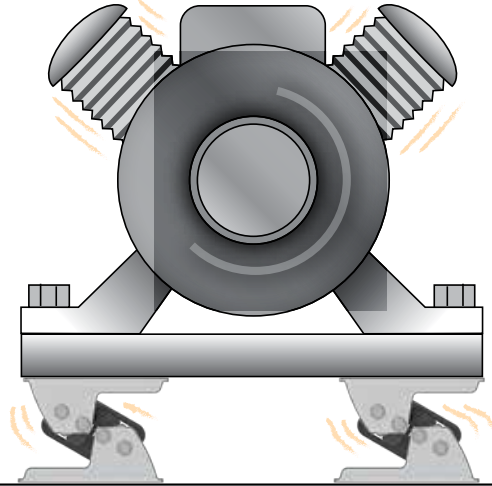
Failure to follow these cautions could create a risk of injury.

You must refer to page 8 for Important Safety Instructions and Precautions for the selection and use of these products.
Failure to follow the instructions and precautions can result in severe injury or death.

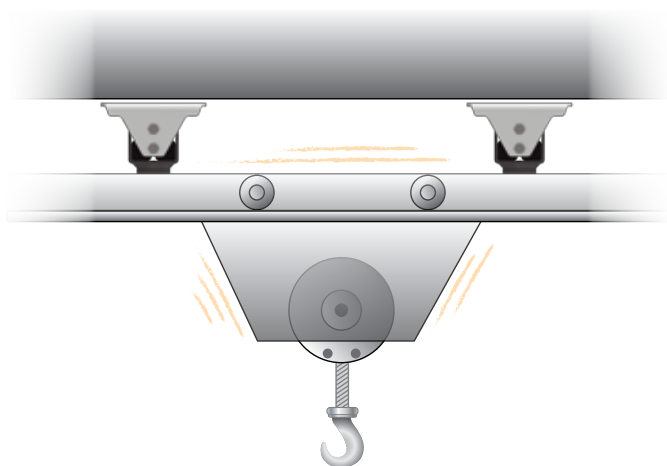
Anti-Vibration Mounts Usage Illustrations

RunRight[®]
by **Lovejoy**

Designed for vibration-suppression type applications with high sinusoidal frequencies.





Shock absorption for impact beds provides protection of conveyor belts.



Highly elastic suspension units absorb active or passive vibrations, and provide solid-borne noise insulation.

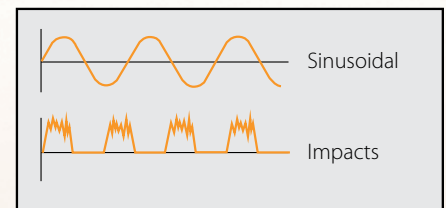


Anti-Vibration Mounts Selection Guide

RunRight Model	Type	Page #	Description
	RAV D	64	Type RAV D Anti-Vibration Mounts are used to absorb tensile, pressure and shear loads. Normally horizontally mounted (on floor), they are also ideal for wall and ceiling installations. Available in 8 sizes with a load range of 45 to 4,271 lbs per mount. Their natural frequency is between 3.5 and 8 Hz. The Type RAV D mounts are used for machine installations where the machine frequency > RAV D natural frequency.
	RAV	66	Type RAV Anti-Vibration Mounts are used to absorb tensile, pressure and shear loads. Normally horizontally mounted (on floor), they are also ideal for wall and ceiling installations. Available in 6 sizes with a load range of 67 to 2,700 lbs per mount. Their natural frequency is between 10 and 30 Hz. The Type RAV mounts are used for machine installations where the machine frequency < RAV natural frequency.

Anti-Vibration Technology

Manufacturers of anti-vibration mounts usually offer machine mounts with varying natural frequencies, to eliminate the excitation frequency of the machine, versus the natural frequency of the anti-vibration mount. Vibration technology differentiates between two types of oscillation signatures. Sinusoidal oscillation of working equipment produces a predictable vibration signature. Sinusoidal oscillations occur on generators, compressors and blowers, which require a soft RAV D mount, whereas, shocks or impacts produce a non-predictable signature. For mixers, crushers, punching presses and shears, a RAV mount would be preferred.



Dampening effect is related to the proportion of the relevant acoustic resistance to acoustic velocity, and the material density. Typically, the ideal amount of isolation of solid-borne noise can be expected through the entire frequency range with a rubber-steel mount combination. Isolation in relationship to steel is shown in the chart to the right.

Isolation Properties

Active isolation prevents the direct transfer of a machine's vibrations into the substructure, frame and building. In order to select anti-vibration mounts, the machine structure stiffness, center of gravity, interfering frequency, and machine location need to be known.

Passive isolation installs a protective barrier between the shocks and vibrations that occur in a factory when sensitive instruments, laboratory equipment, or electronic controls are involved. Sensitive equipment needs to be protected by installing them on soft anti-vibration mounts (RAV D) that will absorb the environmental impacts.

Acoustic Isolation (vs. Steel)	
Steel:	1:1
Bronze:	1:1.3
Cork:	1:400
Rubber:	1:800
Air:	1:90,000

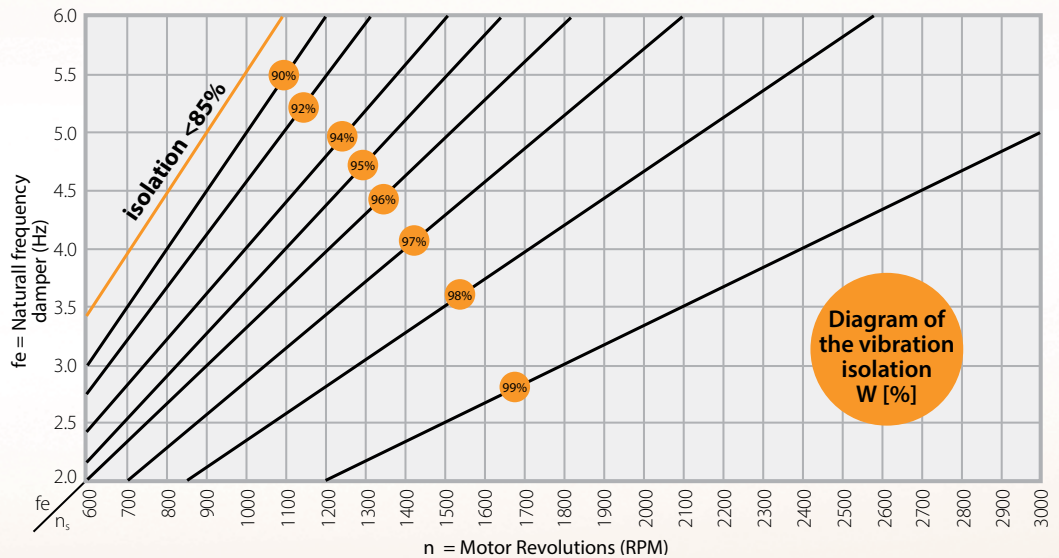


Diagram of the vibration isolation W [%]

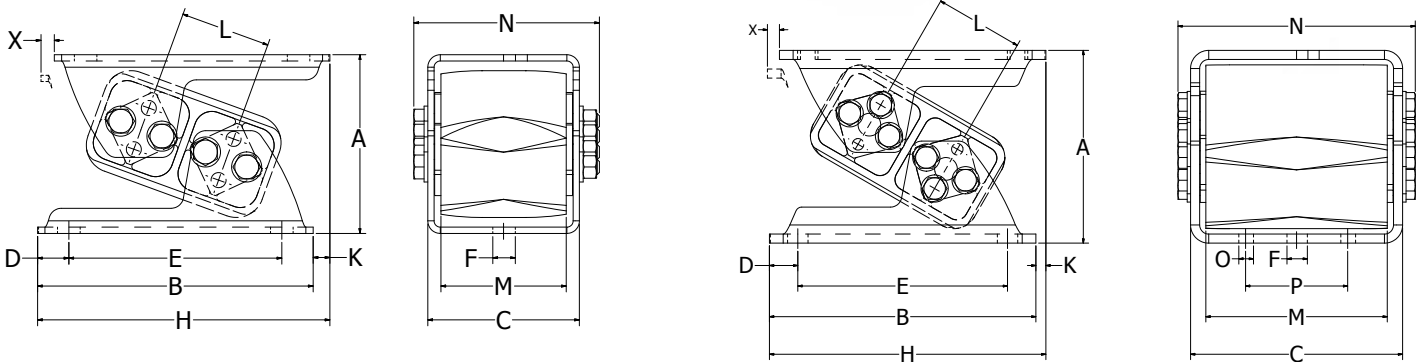
Anti-Vibration Mounts

RAV D



RunRight Anti-Vibration Mounts Type RAV D

RunRight RAV D Anti-Vibration mounts are designed for applications requiring the absorption of low and medium frequency vibrations. They are used to absorb tensile, pressure and shear loads. Typically mounted horizontally on the floor, they can also be used for wall and ceiling applications. The RAV D are manufactured with cast iron housings, aluminum inner squares and have steel brackets. They are manufactured with standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



Anti-Vibration Mounts Type RAV D

UPC #	Type	G Load Range lbs (N)	Dimensions - Inches (mm)												
			A		B	C	D	E	F	H	J	K	L	M	N
			UNLOADED	MAX LOAD											
68514425214	RAV D15	45 to 123 (200 to 550)	2.12 (54)	1.69 (43)	3.34 (85)	1.92 (49)	0.39 (10)	2.55 (65)	0.27 (7)	3.58 (91)	0.07 (2)	0.21 (5.5)	1.00 (25.5)	1.57 (40)	2.30 (58.5)
68514425215	RAV D18	100 to 280 (450 to 1,250)	2.55 (65)	2.00 (51)	4.13 (105)	2.36 (60)	0.49 (12.5)	3.14 (80)	0.37 (9.5)	4.37 (111)	0.09 (2.5)	0.21 (5.5)	1.22 (31)	1.96 (50)	2.71 (69)
68514425216	RAV D27	157 to 449 (700 to 2,000)	3.46 (88)	2.67 (68)	5.51 (140)	2.79 (71)	0.59 (15)	4.33 (110)	0.45 (11.5)	5.82 (148)	0.11 (3)	0.31 (8)	1.73 (44)	2.36 (60)	3.35 (85.3)
68514425217	RAV D38	292 to 854 (1,300 to 3,800)	4.60 (117)	3.58 (91)	6.88 (175)	3.85 (98)	0.68 (17.5)	5.51 (140)	0.55 (14)	7.16 (182)	0.15 (4)	0.27 (7)	2.36 (60)	3.14 (80)	4.60 (117)
68514425218	RAV D45	494 to 1,350 (2,200 to 6,000)	5.62 (143)	4.33 (110)	8.66 (220)	4.72 (120)	0.98 (25)	6.69 (170)	0.70 (18)	9.25 (235)	0.19 (5)	0.51 (13)	2.87 (73)	3.93 (100)	5.43 (138)
68514425219	RAV D50	899 to 2,472 (4,000 to 11,000)	6.69 (170)	5.43 (138)	9.25 (235)	5.59 (142)	0.98 (25)	7.28 (185)	0.70 (18)	9.60 (244)	0.23 (6)	0.35 (9)	3.07 (78)	4.72 (120)	6.37 (162)
68514483847	RAV D50-1.6	1,236 to 3,372 (5,500 to 15,000)	6.69 (170)	5.43 (138)	9.25 (235)	7.32 (186)	0.98 (25)	7.28 (185)	0.70 (18)	9.60 (244)	0.31 (8)	0.35 (9)	3.07 (78)	6.29 (160)	8.11 (206)
68514483848	RAV D50-2.0	1,573 to 4,271 (7,000 to 19,000)	6.69 (170)	5.43 (138)	9.25 (235)	8.89 (226)	0.98 (25)	7.28 (185)	0.70 (18)	9.60 (244)	0.31 (8)	0.35 (9)	3.07 (78)	7.87 (200)	9.68 (246)

Notes: ■ The RAV D Mounts shown shaded in gray may be "Mixed & Matched" as required to achieve proper loading.
 ■ The maximum load applied to the x-axis cannot exceed 200% of the z-axis capacity. ■ The maximum load applied to the y-axis cannot exceed 20% of the z-axis capacity.
 ■ See page 63 for additional product and performance data.

ANTI-VIBRATION

Anti-Vibration Mounts

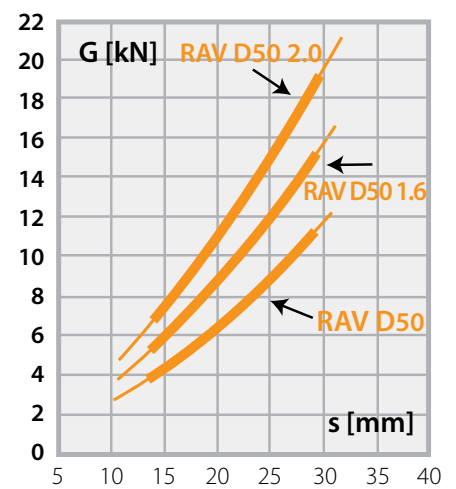
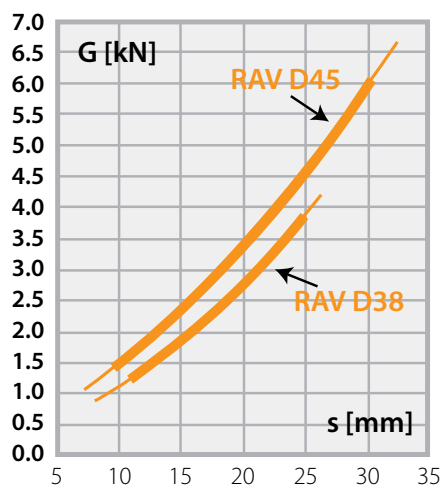
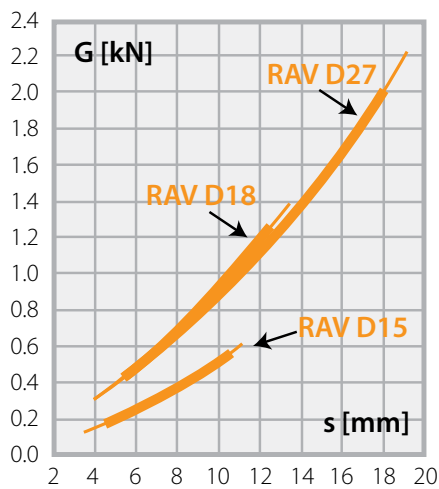
RAV D continued

Anti-Vibration Mounts Type RAV D, continued						
UPC #	Type	Natural Frequency G Min to G Max (Hz)	O inch (mm)	P inch (mm)	X Max inch (mm)	Materials (Zinc Plated Hardware)
68514425214	RAV D15	8.2 - 5.8	—	—	0.06 (1.5)	Aluminum Inner Profiles Cast Iron Housings Steel Brackets Painted Black
68514425215	RAV D18	7.5 - 5.0	—	—	0.075 (1.9)	
68514425216	RAV D27	6.2 - 4.5	—	—	0.11 (2.7)	
68514425217	RAV D38	5.5 - 4.0	—	—	0.14 (3.6)	
68514425218	RAV D45	5.0 - 3.5	—	—	1.73 (4.4)	
68514425219	RAV D50	5.0 - 3.5	0.53 (13.5)	3.54 (90)	0.39 (10)	Aluminum Inner Profiles Cast Iron Housings Steel Brackets Painted Black
68514483847	RAV D50-1.6	5.0 - 3.5	0.53 (13.5)	3.54 (90)	0.39 (10)	
68514483848	RAV D50-2.0	5.0 - 3.5	0.53 (13.5)	3.54 (90)	0.39 (10)	

Note: ■ The RAV D Mounts shown shaded in gray boxes may be "Mixed & Matched" as required to achieve proper loading.

Cold Flow and Deflection Curves

The deflection values shown below indicate the initial cold flow that occurs within a few hours of operation. The deflection values shown in the charts below are not recommended for unit testing. Please see pages 4 through 7 in this catalog for additional information.



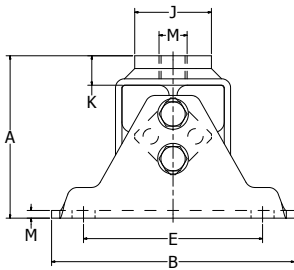
Anti-Vibration Mounts

RAV

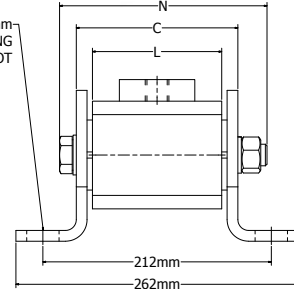
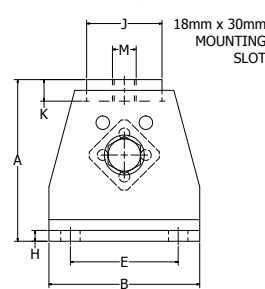
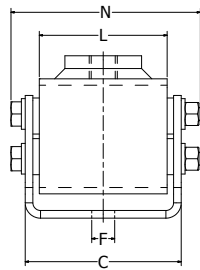


RunRight Anti-Vibration Mounts Type RAV

RunRight RAV Anti-Vibration mounts are designed for multi-directional applications requiring the absorption of tensile, pressure and shear loads. Typically mounted horizontally on the floor, they can also be used for wall and ceiling applications. They are manufactured with aluminum housings and inner squares and have steel brackets. They are manufactured with standard Tensys™ 10 rubber inserts and can be used for applications operating within a -40° to 180°F (-40° to 80°C) temperature range.



RAV 15 to 45



RAV 50

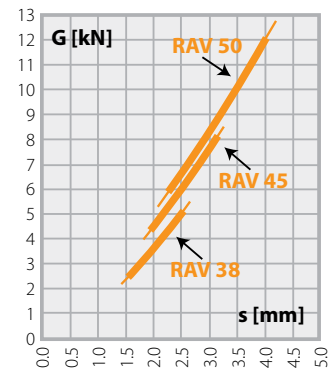
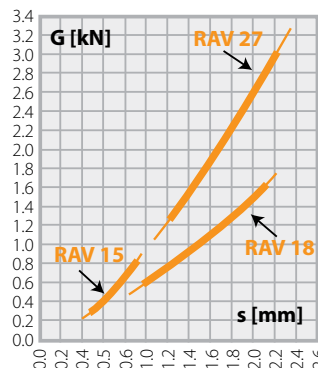
Anti-Vibration Mounts RAV													
UPC #	Type	G Load Range lbs (N)	Dimensions - Inches (mm)										
			A	B	C	E	F	H	J	K	L	M	N
68514453373	RAV 15	67 to 180 (300 to 800)	1.93 (49)	3.15 (80)	2.01 (51)	2.17 (55)	0.37 (9.5)	0.11 (3)	0.79 (20)	0.39 (10)	1.57 (40)	M10	2.32 (59)
68514457653	RAV 18	135 to 360 (600 to 1,600)	2.6 (66)	3.94 (100)	2.44 (62)	2.95 (75)	0.37 (9.5)	0.14 (3.5)	1.18 (30)	0.51 (13)	1.96 (50)	M10	2.91 (74)
68514457654	RAV 27	292 to 670 (1,300 to 3,000)	3.31 (84)	5.12 (130)	2.87 (73)	3.94 (100)	0.45 (11.5)	0.15 (4)	1.57 (40)	0.57 (14.5)	2.36 (60)	M12	3.35 (85)
68514457655	RAV 38	585 to 1,125 (2,600 to 5,000)	4.13 (105)	6.10 (155)	3.94 (100)	4.72 (120)	0.55 (14)	0.19 (5)	1.77 (45)	0.69 (17.5)	3.14 (80)	M16	4.61 (117)
68514457656	RAV 45	1,000 to 1,800 (4,500 to 8,000)	5.00 (127)	7.48 (190)	4.80 (122)	5.51 (140)	0.70 (18)	0.23 (6)	2.36 (60)	0.87 (22.5)	3.94 (100)	M20	5.63 (143)
68514463661	RAV 50	1,350 to 2,700 (6,000 to 12,000)	5.91 (150)	5.51 (140)	5.91 (150)	3.94 (100)	—	0.39 (10)	2.76 (70)	0.98 (25)	4.72 (120)	M20	7.60 (193)

UPC #	Type	Natural Frequency G Min to G Max (Hz)	Materials (Zinc Plated Hardware)
68514453373	RAV 15	23 - 30	Aluminum Inner Square
68514457653	RAV 18	15 - 25	
68514457654	RAV 27	20 - 28	
68514457655	RAV 38	12 - 14	Steel Brackets
68514457656	RAV 45	12 - 15	Painted Black
68514463661	RAV 50	10 - 12	

Notes: ■ The maximum load applied to the y-axis, cannot exceed 20% of the x-axis and z-axis capacity.
 ■ Momentary shock loads of 2.5 g may be applied to the x-axis and z-axis.

Cold Flow and Deflection Curves

The deflection values shown at right indicate the initial cold flow that occurs within a few hours of operation. The deflection values shown in the charts are not recommended for unit testing. Please see pages 4 through 7 in this catalog for additional information.



The leader in power transmission products.



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