

RELIABLE TOOL SUPPORT PRODUCTS > FOR HARSH INDUSTRIAL ENVIRONMENTS

Positioners, Retractors, Balancers, Torque Reels, Static Discharge Reels



Aero-Motive®

molex®



TOOL SUPPORT PRODUCTS > THAT ENHANCE PRODUCTIVITY AND INCREASE EFFICIENCY

Over the last 75 years Aero-Motive® has designed and manufactured a wide range of tool support products to enhance productivity and increase efficiency, while reducing worker fatigue and common injuries in the workplace. Aero-Motive balancers and retractors provide best-in-class ergonomics, with tools that become almost weightless in the hands of operators. This enables our customers to optimize their performance without sacrificing safety.

Aero-Motive products provide the right solution for the right application, for every industry while creating long-term value through lasting performance. Our commitment to our customers is strong, and we aim to meet the expectations of our valued customers by providing efficient and valuable solutions.

Aero-Motive products are proven to provide:

- Improved safety of employees
- Best-in-class ergonomics
- Increased efficiency and productivity in the workplace
- Value through lasting performance



Achieve Best in Class Ergonomics and Safety in 5 Easy Steps

- 1. Measure the total weight of the tool (including hoses, fluids etc.) to find the weight of the load.**
- 2. Choose the balancer or retractor that will position the total weight of the load at the midrange of published weight capacity.**
- 3. Use a safety chain or a safety cable to secure the balancer or retractor to a separate trolley on runways.**
- 4. Adjust tension on the balancer or retractor using the external adjustment mechanism until the tool becomes weightless in operator's hand.**
- 5. Monitor integrity of main cables and secondary supports on a daily basis.**

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INDUSTRIAL APPLICATION

Industries Served by Aero-Motive®

General Factory Floor Assembly

Automotive — Body Shop, Power Train and General Assembly

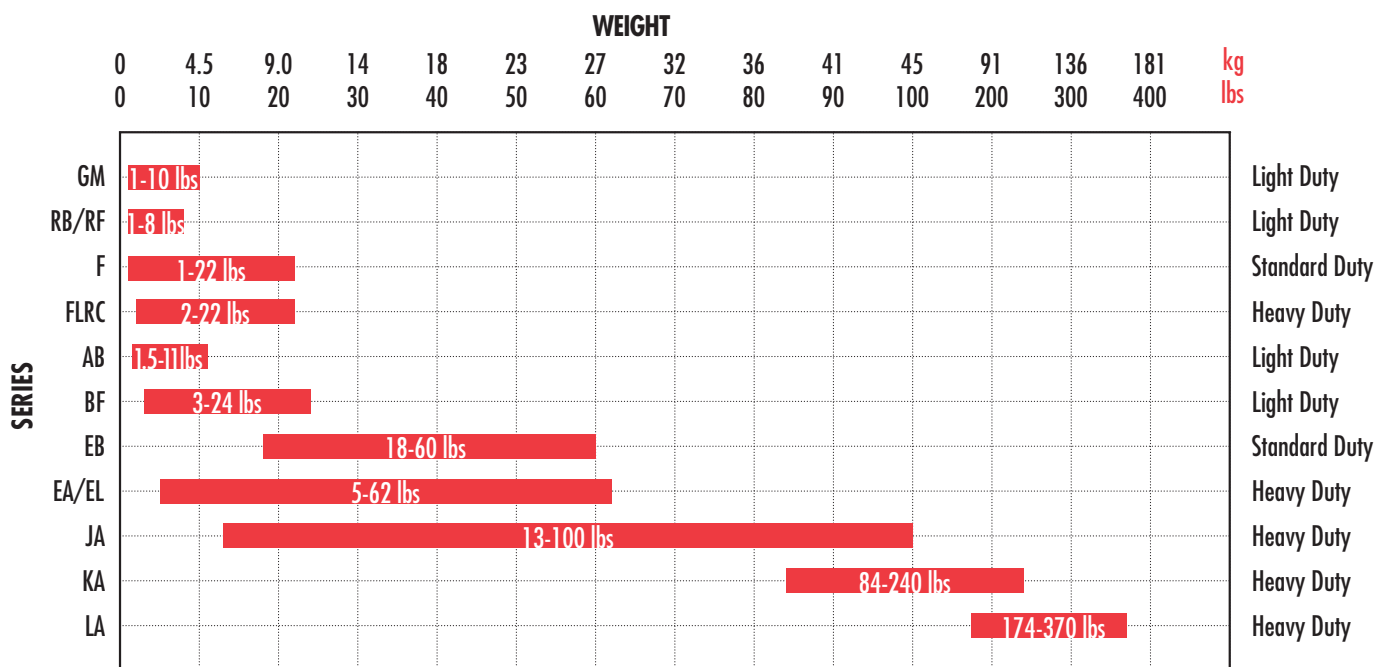
Consumer/Home Appliance — White Goods and Electronics

Industrial Automation — Food and Beverage

Industrial Electrical

Medical

Heavy Equipment Manufacturing



INSTALLATION INFORMATION

Load refers to the **total system weight** that should be considered when selecting a balancer or retractor. This includes the tool, the cable or hose and fluids, as well as any additional attachments.

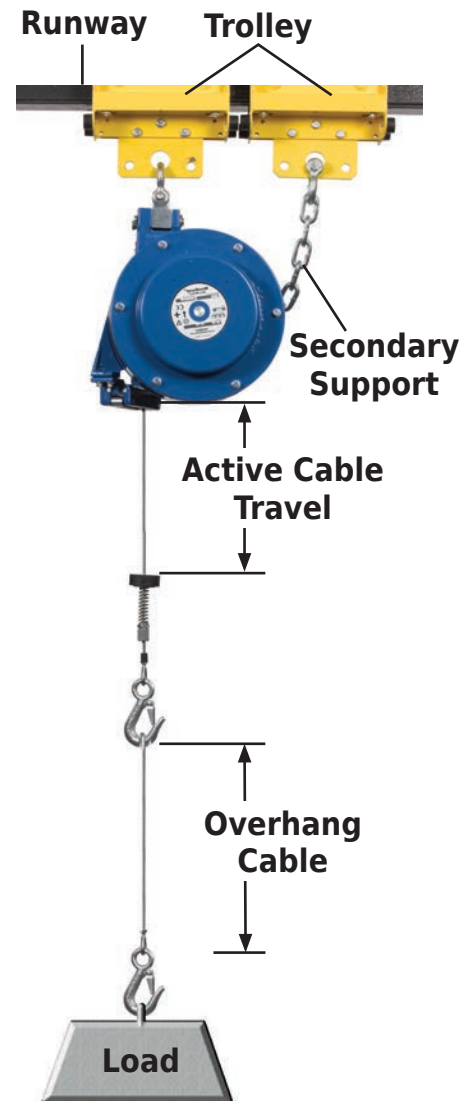
Active Cable Travel is the cable available to be pulled out and retracted into the unit, and is used to place the load within the ergonomic zone.

Overhang Cable is any additional length of cable attached to or part of the active cable travel, but will not be retracted into the unit. Overhang cables are used in industrial applications with high ceilings to properly position loads into the ergonomic zone.

Unit Overhead Mounting: Stationary — For maximum operator efficiency and unit life, mount tool support products directly over workspace with the cable perpendicular to the floor when in use. Not doing so may cause fatigue and can lead to excessive wear on the cable and drum.

Unit Overhead Mounting: Trolleys and Runways — For industrial applications that require the continuous movement of tools, a system of trolleys and runways is used and the tool support product must be properly mounted to a trolley using an upper mount.

Secondary Support in the form of a safety chain or cable for tool support products that are mounted overhead is strongly recommended to prevent any unit from accidentally falling. For trolley systems, we recommend attaching the safety chain or cable to two separate trolleys to maximize safety.



FEATURE IDENTIFIERS

External Tension Adjustment

Tension can be adjusted easily to match the weight of the load while controlling the retraction speed (See next page for more information).

Upper Mount

This feature allows the unit to be safely mounted or secured within applications, upper mounts can be fixed allowing minimum rotational freedom or best designs allow a 360° rotational freedom for unit movement.

Automatic Safety Lock

This is an internal mechanism which prevents a load from falling in the event that a unit loses tension or a power-spring breaks.

Manual Safety Lock

Facilitates quick and safe tool/load changeover without the risk of cable fly-back.

Manual Remote Safety Lock

Enables manual lock to be engaged or disengaged using a cam/lever arm, operated by a conveniently placed floor-level handle.

Cable Replacement

Plug and play feature allows cable replacement to be done easily while balancer is still in service.

Containerized Spring Cassettes

Power springs are contained in cassettes to allow easy and safe handling.

Ratchet Lock ('ON')

Special cam design which allows cable locking at the desired position, ratchet is unlocked with a simple tug of the cable. Ratchet is always ON by design.

Ratchet Lock ('ON/OFF')

Same as ratchet lock 'ON', but ratchet lock function can be manually engaged or disengaged. Ratchet functionality is disabled in "OFF" mode.

Cable Arrest

Added safety feature to eliminate cable fly-backs caused by cable failures or accidental tool detachments.

Declutching Spring Hub

Automatically prevents damage to power spring in the event of reverse winding.

WearGuard™ Epoxy

Drum is coated with WearGuard™ epoxy to extend cable and drum life in harsh environments.

Cable Guide

Designed specifically to extend Cable Life as cables are pulled at different angles within applications for different tasks. Best Cable Guides employ Roller Guides as to eliminate complete Friction between Cable and Cable Guide.

FEATURE IDENTIFIERS

External Tension Adjustment



Ergo Knob [RB Series]

This system employs a spring loaded knob and a positive manual ratchet design. To add tension, turn ergo knob clockwise or towards ‘+’ until desired tension is reached. To remove tension, pull and turn the knob counterclockwise one ratchet at a time.



Ergo Knob and Push Cam [RF and RFL Series]

This system employs a spring loaded, and positive spring loaded, ratchet cam design. To add tension, turn ergo knob clockwise or towards ‘+’ until desired tension is reached. To remove tension, hold ergo knob whilst pushing on the cam — the knob will turn counterclockwise one ratchet at a time.



Hex Cam and Lock Lever [AB Series]

This system allows the cam to manually lock in place at a desired position by means of a lock lever. To add tension, insert a hex key into the cam and turn it clockwise or in the direction of the ‘+’ sign. Do not release the hex key until the cam is locked in place by the lock lever.



Worm Gear Vertical [EB; EL; EA; JA; KA & LA Series]

Designed to easily add or remove tension for loads of up to 375 lbs (170 kg) using nut runner tools. Add tension by simply turning bolt clockwise or in “+” direction. Remove tension by turning bolt counterclockwise or in “-” direction.

FEATURE IDENTIFIERS

External Tension Adjustment



Shaft and Spring Friction Clutch System [F; FLR; FLS; FLSR Series]

This system works by locking the main shaft in place by exerting pressure which is evenly dispersed around the circumference of the main shaft. Add tension by simply turning main shaft counter-clockwise or in the “+” direction. To remove tension, first hold main shaft by means of a manual key and then press on the spring clutch lever to allow rotation of shaft.



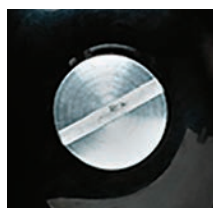
Self Lock Push/Pull Pin [FLRC Series]

To add or remove tension, use proper key to turn the main shaft in either “+” or “-” direction while pulling on Self Locking Pin.



Shaft and Push Cam [BF & BFL Series]

Add tension by simply turning main shaft counter-clockwise or in the “+” direction until desired tension is reached. To remove tension, first hold main shaft by means of a manual key and then push on the Cam Lever to allow rotation of shaft in the “-” or clockwise direction.



Friction Brake [GM31 Series]

This design allows the unit to build friction instead of building tension. It builds up friction as the cable is pulled out of the unit. Simple tension adjustment using a flat driver or a coin. To achieve desired Ergonomics, add friction by turning the shaft in “+” direction or remove friction by turning the shaft in “-” direction.



Positioners are reeling devices that employ a friction brake design to enable the positioning of light loads at a desired height throughout the active cable travel, and maintain the established position without requiring extra force.

Depending on the adjustment of the friction brake, the tool can be moved downward with very little effort. However, to move the tool upward, the full weight of the object must be lifted.



Aero-Motive® Positioner



APPLICATIONS

GENERAL INDUSTRIAL
WORKSTATIONS
PENDANT STATIONS
SHIELD
MAGNIFIERS
HEAT LAMPS
SIGNS
LIGHTS
LIGHT TOOLS

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GM31 Series Light Industrial Duty

Aero-Motive Positioner GM31 provides a low-cost solution for low-cycle and light-load applications such as lights, heat lamps, and signs without requiring extra force to maintain the established position. GM31 was designed such that its compact size will enable the unit to fit within most industrial air coiled hoses.

Product Features*

Automatic Safety Lock: No

Manual Safety Lock: No

Upper Mount: Fixed S-Hook

External Tension Adjustment: Friction Brake

Secondary Support: No

Serviceable: No

Upper Mount: Fixed S-Hook

Quick and Easy Installation

High-Impact ABS Housing

External Tension Adjustment:

Friction Break—Easily Operated

Durable Nylon Cable

Tool Clip

for Easy Attachment and Removal



* **Feature Identifiers** (in bold) defined on pages 6 to 9.

GM31 Series
Light Industrial Duty

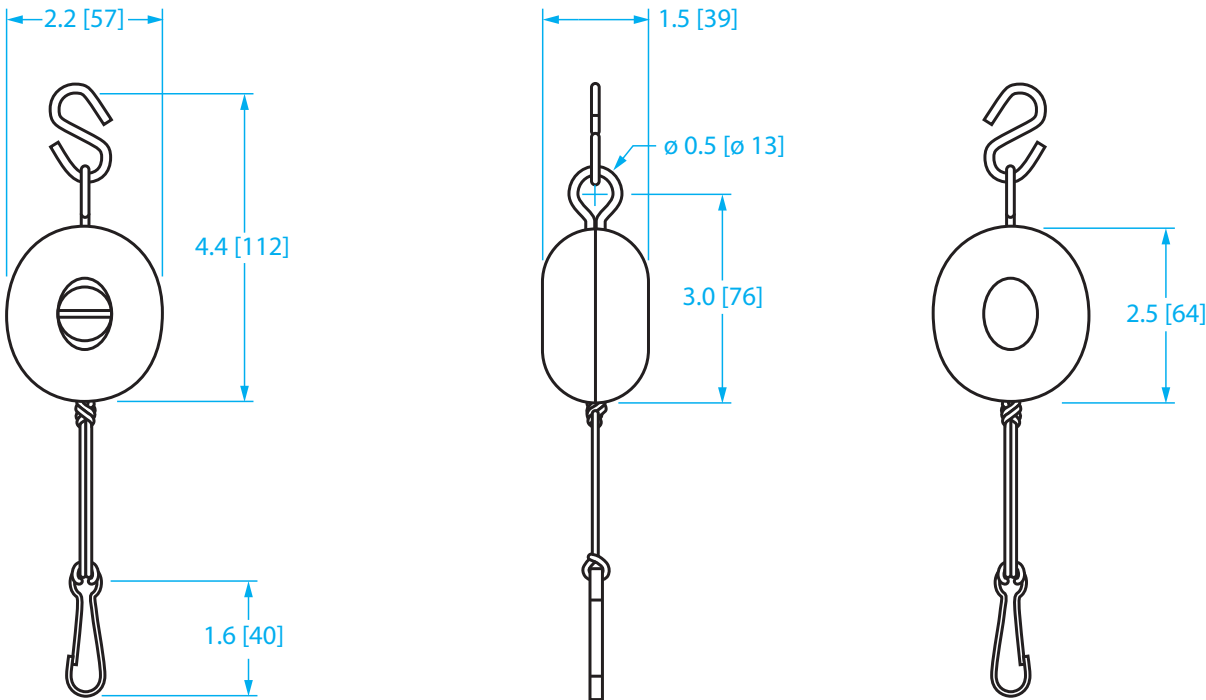
Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
GM31	130169-0002	0.5 to 4.5	1.0 to 10.0	1.4m (4.7')	No

Note: Sales drawings for all standard order numbers are available on molex.com.

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
GM31	51	2	71	3	97	4	0.1	0.2

Specifications for reference only [$\pm 10\%$]. Subject to change without notice.



Retractors are designed to retract a tool or load when no force is applied to it. Constant downward force has to be applied in order to keep the suspended tool or load in position. The torque output of the rewind spring increases as the cable is pulled out of the unit, retracting the suspended tool/load to the uppermost adjusted position when released.



Aero-Motive® Retractors



APPLICATIONS

GENERAL INDUSTRIAL

ELECTRICAL TOOLS

MECHANICAL TOOLS

PNEUMATIC TOOLS

SCANNING GUNS

CABLING & HOSES

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Aero-Motive®

Retractors

molex®

RB Series
Light Industrial Duty

Aero-Motive RB retractors equipped with power springs for best-in-class ergonomics and long life cycles, are the product of choice in virtually any light assembly applications.

Product Features*

Automatic Safety Lock: No

Manual Safety Lock: No

External Tension Adjustment: Ergo Knob

Upper Mount: 360° Swivel

Secondary Support: Safety Cable (Optional)

Serviceable: No

Upper Mount: 360° Swivel with Safety Cotter Pin

Secondary Support: Mount Hole
for Safety Cable (Optional)

External Tension Adjustment: Ergo Knob
Easily Operated

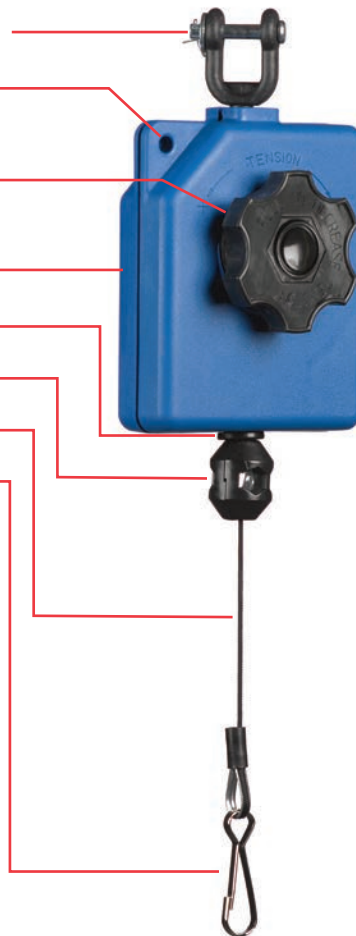
High-Impact ABS Housing

Cable Guide: High-Impact Plastic

Adjustable Cable Stop

Braided Nylon Cord

Tool Clip for Easy Tool Attachment or Removal



* **Feature Identifiers** (in bold) defined on pages 6 to 9.

RB Series
Light Industrial Duty

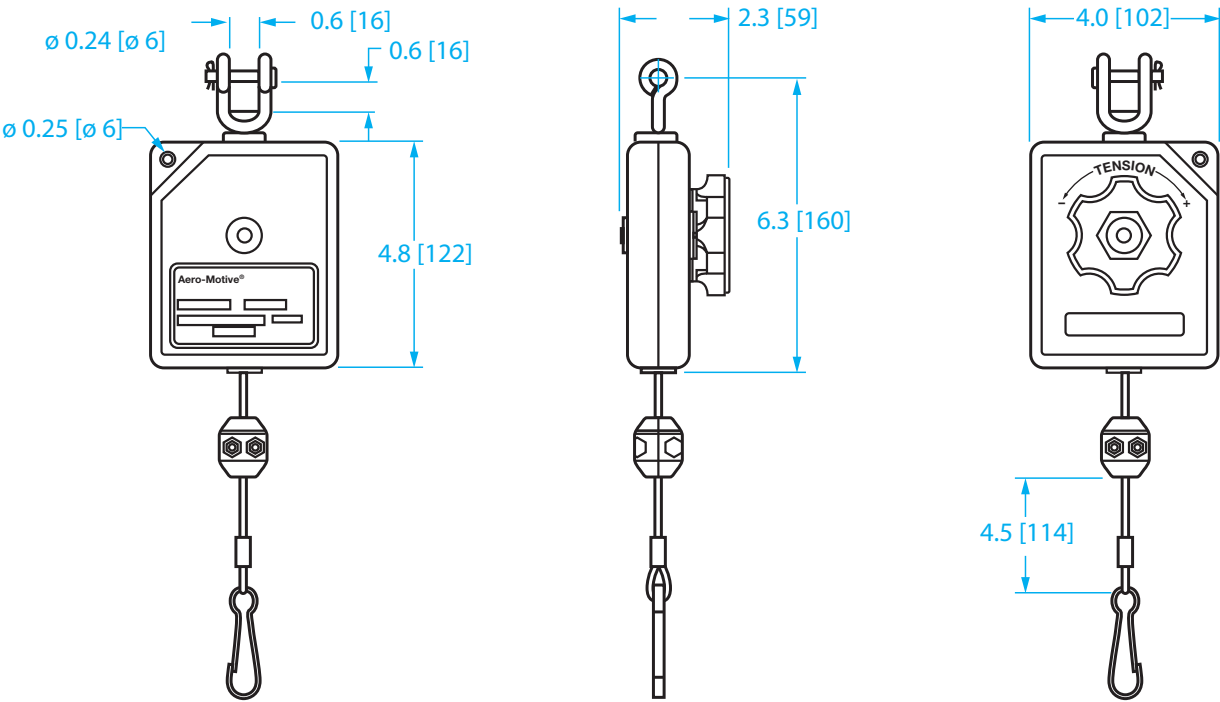
Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
RB2	130173-0036	0.5 to 0.9	1.0 to 2.0	1.6m (5.2')	No
RB4	130173-0048	0.9 to 1.8	2.0 to 4.0		
RB210	130173-0037	0.5 to 0.9	1.0 to 2.0	3.0m (10.0')	

Note: Sales drawings for all standard order numbers are available on molex.com.

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
RB Series	65	3	115	5	225	9	0.5	1.0

Specifications for reference only [±10%]. Subject to change without notice.

Aero-Motive®

Retractors

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*RF and RFL Series
Light Industrial Duty*

Aero-Motive RF and RFL retractors feature a tension adjusting push-lever to allow for easy de-tension of the unit and easy adjustment of power spring tension to fit the weight-range capacity of the tools weighing up to 8 lb [3.6 kg].

Product Features*

Automatic Safety Lock: No

Manual Safety Lock: No

Upper Mount: 360° Swivel Hanger

External Tension Adjustment: Ergo Knob and Push Cam

Ratchet Lock (ON): RFL Model

Secondary Support: Safety Cable (Optional)

Serviceable: No

Upper Mount: 360° Swivel
with Safety Cotter Pin

Secondary Support: Mount Hole
for Safety Cable (Optional)

High-Impact ABS Housing

External Tension Adjustment:
Ergo Knob and Push Cam

Cable Guide: Hardened Steel

Adjustable Cable Stop

Standard: 1.5mm (DIA) - [7 x 7]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Snap Hook for Easy Tool Attachment
and Removal



* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

RF and RFL Series
Light Industrial Duty

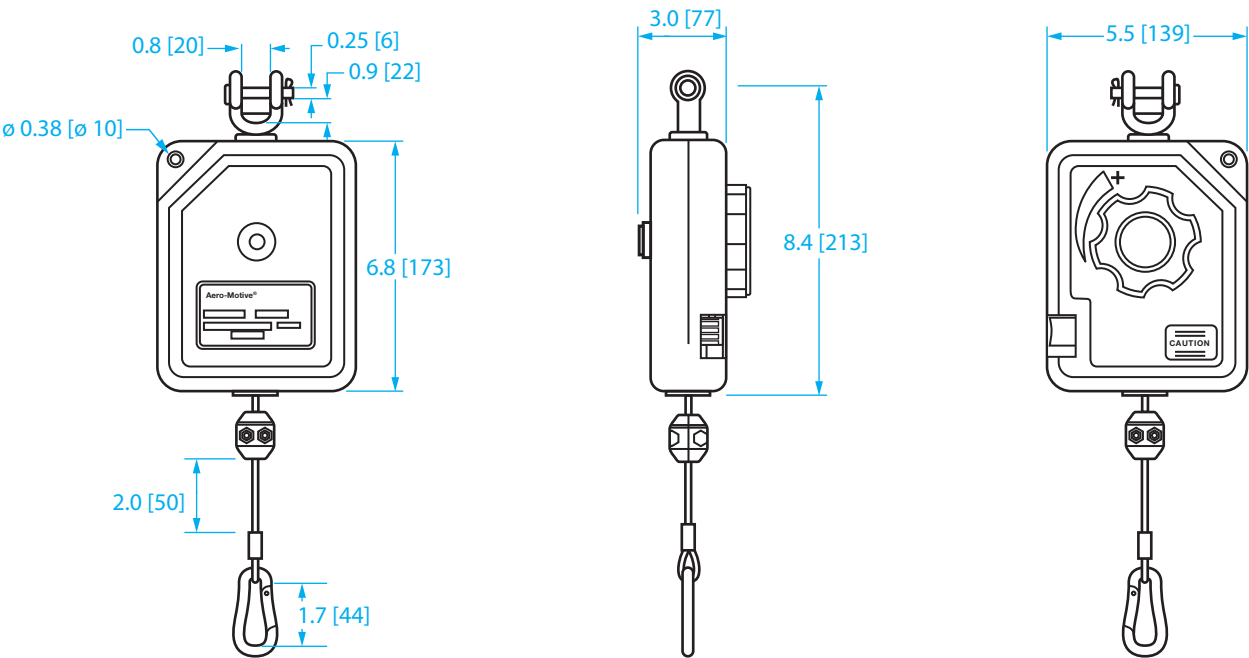
Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
RF6	130173-0055	1.8 to 2.7	4.0 to 6.0	2.0m (6.6')	No
RF8	130173-0061	2.7 to 3.6	6.0 to 8.0		
RFL6	130173-0069	1.8 to 2.7	4.0 to 6.0		
RFL8	130173-0074	2.7 to 3.6	6.0 to 8.0		

Note: Sales drawings for all standard order numbers are available on molex.com.

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
RF Series	85	3	140	6	310	12	1.5	3.5
RFL Series								

Specifications for reference only [±10%]. Subject to change without notice.

Aero-Motive® Retractors

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5F and 5FLR Series Standard Industrial Duty

Aero-Motive 5F and 5FLR retractors, equipped with power springs, provide best-in-class ergonomics and long-lasting lifecycles, and are a great choice for tools weighing between 1 to 5 lb (0.4 to 2.3 kg).

Product Features*

Automatic Safety Lock: No

Manual Safety Lock: No

Upper Mount: Fixed—Shackle & Cotter Pin

External Tension Adjustment: Shaft and Spring Friction Clutch

Ratchet Lock (ON/OFF): FLR Model

Secondary Support: Safety Cable (Optional)

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Upper Mount: Fixed Industrial Grade Shackle
with Safety Cotter Pin

Dual Hole Mount Position for
Cable and Guide Alignment

Secondary Support: Mount Hole
for Safety Cable (Optional)

Sheet-Metal Housing
to Protect Spring and Drum

Cable Guide: Hardened Steel

Rubber Shock Absorber

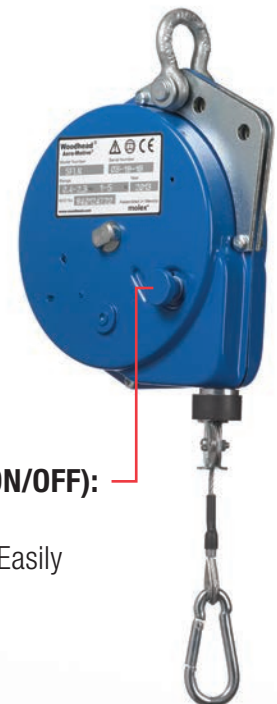
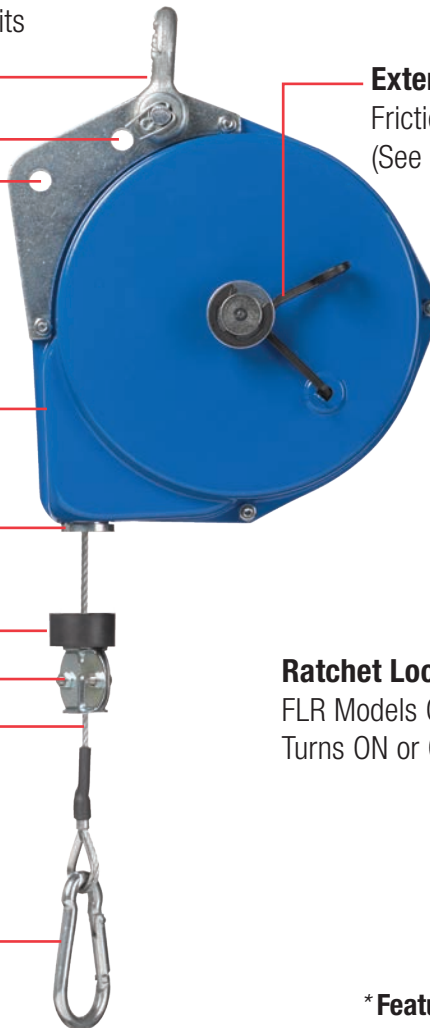
Adjustable Cable Stop

Standard: 2.5mm (DIA) - [7 x 7]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Snap Hook for Easy Attachment
and Removal

External Tension Adjustment:
Friction Clutch Easily Operated
(See service manual)

Ratchet Lock (ON/OFF):
FLR Models Only,
Turns ON or OFF Easily



* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

5F and 5FLR Series
Standard Industrial Duty

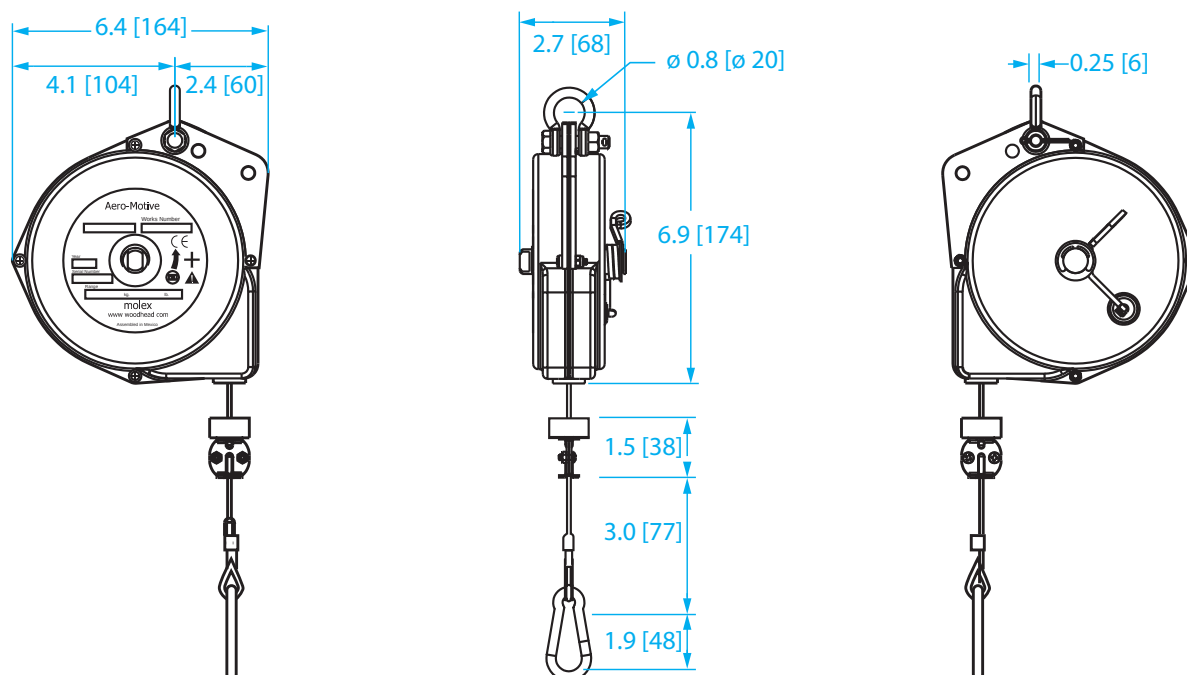
Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
5F	130175-0014	0.4 to 2.3	1.0 to 5.0	2.4m (8.0')	Yes
5FLR	130175-0016	0.4 to 2.3	1.0 to 5.0		

Note: Sales drawings for all standard order numbers are available on molex.com.

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
5F	140	6	203	8	262	10	2.2	5.0
5FLR								

Specifications for reference only [$\pm 10\%$]. Subject to change without notice.

10F/22F and 10FLR/22FLR Series Standard Industrial Duty

Aero-Motive 10/22F and 10/22FLR retractors equipped with NEW Power Springs achieve best-in-class ergonomics and long lasting life cycles. These series retractors are the ideal tool support products for common assembly tools weighing up to 22 lb [10 kg] in any general assembly process.

Product Features*

Automatic Safety Lock: No

Manual Safety Lock: No

Upper Mount: Fixed Shackle & Cotter Pin

External Tension Adjustment: Shaft and Spring Friction Clutch

Ratchet Lock (ON/OFF): FLR Model

Secondary Support: Safety Cable (Optional)

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Upper Mount: Fixed Industrial
Grade Shackle

Dual Hole Mount Position
for Cable and Guide Alignment

Secondary Support: Mount Hole
for Safety Cable (Optional)

Sheet-Metal Housing
to Protect Spring and Drum

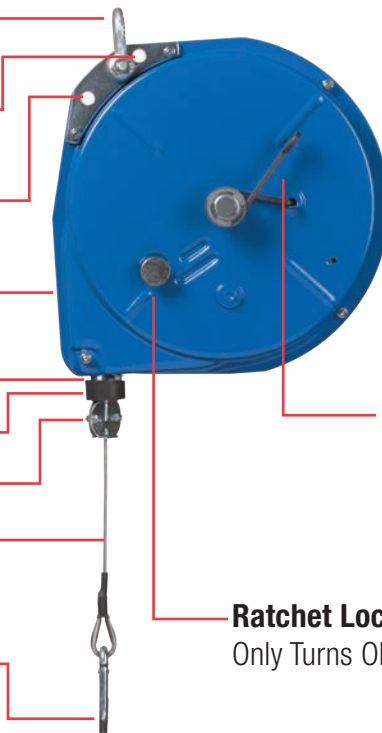
Cable Guide: Hardened Steel

Rubber Shock Absorber

Adjustable Cable Stop

Standard: 2.5mm (DIA) - [7 x 7]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Snap Hook
for Easy Tool Attachment or Removal



External Tension Adjustment:
Friction Clutch Easily Operated
(See service manual)

Ratchet Lock (ON/OFF): FLR Models
Only Turns ON or OFF Easily

* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

10F/22F and 10FLR/22FLR Series
Standard Industrial Duty

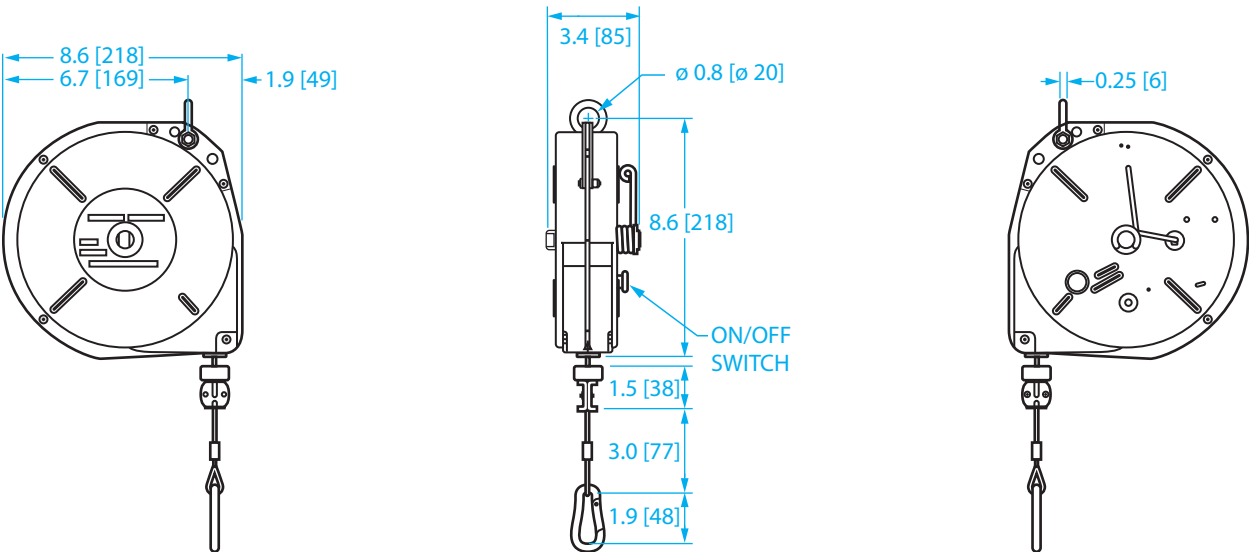
Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
10F	130175-0001	1.8 to 4.5	4.0 to 10.0	2.4m (8.0')	Yes
22F	130175-0011	3.6 to 10.0	8.0 to 22.0		
10FLR	130175-0003	1.8 to 4.5	4.0 to 10.0		
22FLR	130175-0012	3.6 to 10.0	8.0 to 22.0		

Note: Sales drawings for all standard order numbers are available on molex.com

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
10F & 10FLR	165	7	286	11	300	12	4.5	10.0
22F & 22FLR								

Specifications for reference only $\pm 10\%$. Subject to change without notice.

10/22FLS and 10/22FLSR Series
Standard Industrial Duty

NEW

Aero-Motive 10/22FLS and 10/22FLSR retractors offer the exact same performance as 10/22F and 10/22FLR, but are equipped with Automatic Safety Lock. These retractors meet DIN15112 standards, which require arresting a load in place should the unit lose tension or in the event of a power spring failure.

Product Features*

Automatic Safety Lock: Yes

Manual Safety Lock: No

Upper Mount: Fixed—Shackle and Cotter Pin

External Tension Adjustment: Shaft and Spring Friction Clutch

Ratchet Lock (ON/OFF): FLSR Model

Secondary Support: Safety Cable (Optional)

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Upper Mount: Fixed Industrial Grade Shackle

Secondary Support: Mount Hole
for Safety Cable (Optional)

Sheet-Metal Housing
to Protect Spring and Drum

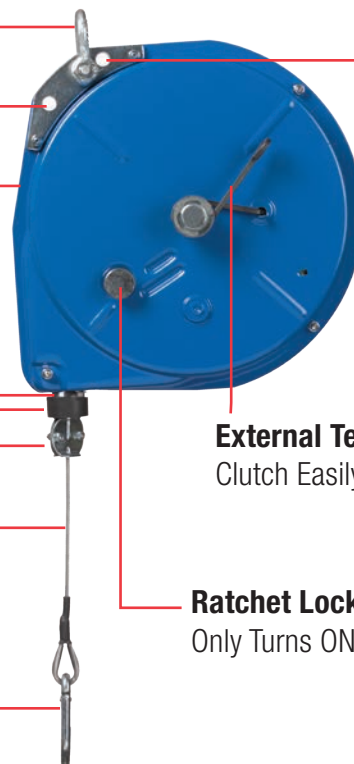
Cable Guide: Hardened Steel

Rubber Shock Absorber

Adjustable Cable Stop

Standard: 2.5mm (DIA) - [7 x 7]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Snap Hook for Easy Tool
Attachment or Removal



Dual Hole Mount Position for
Cable and Guide Alignment

External Tension Adjustment: Friction
Clutch Easily Operated (See service manual)

Ratchet Lock (ON/OFF): FLR Models
Only Turns ON or OFF Easily

* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

10/22FLS and 10/22FLSR Series Standard Industrial Duty

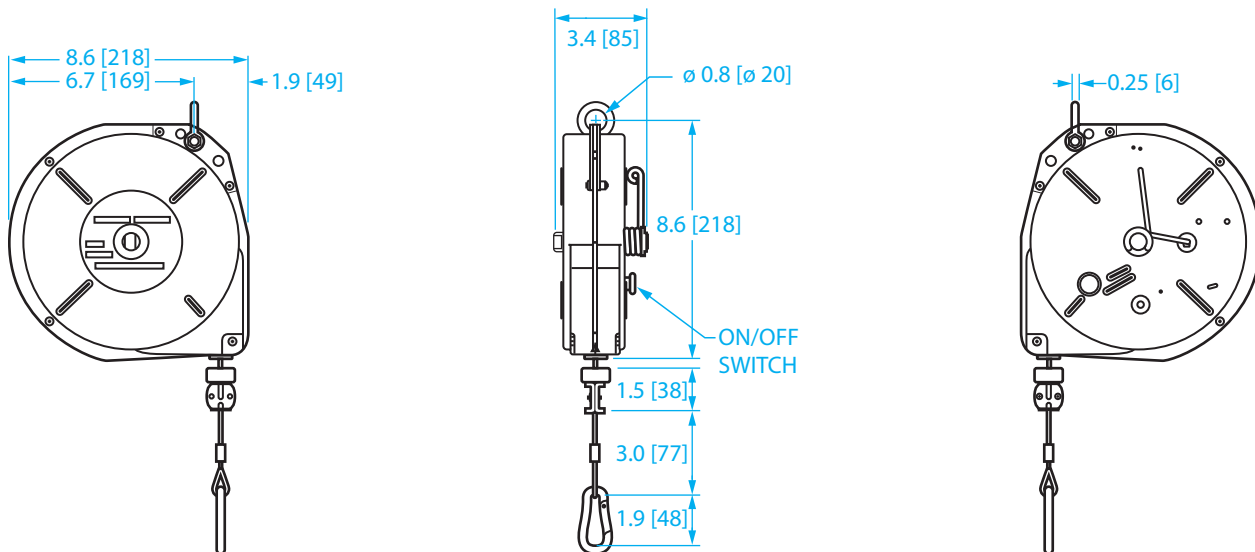
Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
10FLS	130175-0062	1.8 to 4.5	4.0 to 10.0	2.4m (8.0')	Yes
22FLS	130175-0063	3.6 to 10.0	8.0 to 22.0		
10FLSR	130175-0064	1.8 to 4.5	4.0 to 10.0		
22FLSR	130175-0065	3.6 to 10.0	8.0 to 22.0		

Note: Sales drawings for all standard order numbers are available on molex.com.

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
10FLS & 10FLSR	165	7	286	11	300	12	4.5	10.0
22FLS & 22FLSR								

Specifications for reference only [±10%]. Subject to change without notice.

FLRC Series Heavy Industrial Duty

Aero-Motive FLRC Series retractors are built tough to be able to withstand the harshest environments within the general assembly area. These retractors work in heavy industrial-duty environments and are exposed to high-impact collisions with other larger sized products mounted on the same assembly rails.

Product Features*

Automatic Safety Lock: No

Manual Safety Lock: No

Upper Mount: 360° Swivel

External Tension Adjustment: Shaft and Tension Lock Pin

Ratchet Lock (ON/OFF): Yes

Secondary Support: Safety Cable (Optional)

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Upper Mount: 360° Swivel

Industrial Grade Shackle

High-Pressure Extra-Thick
Cast Aluminum Housings

Cable Guide: Hardened Steel

Rubber Shock Absorber

Adjustable Cable Stop

Standard: 2.5mm (DIA) - [7 x 7]

Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Snap Hook
for Easy Tool Attachment or Removal



Secondary Support: Mount Hole
for Safety Cable (Optional)

Ratchet Lock (ON/OFF):
Turns ON or OFF Easily



External Tension Adjustment:
Self Lock - Push/Pull Pin
(See service manual)

* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

FLRC Series Heavy Industrial Duty

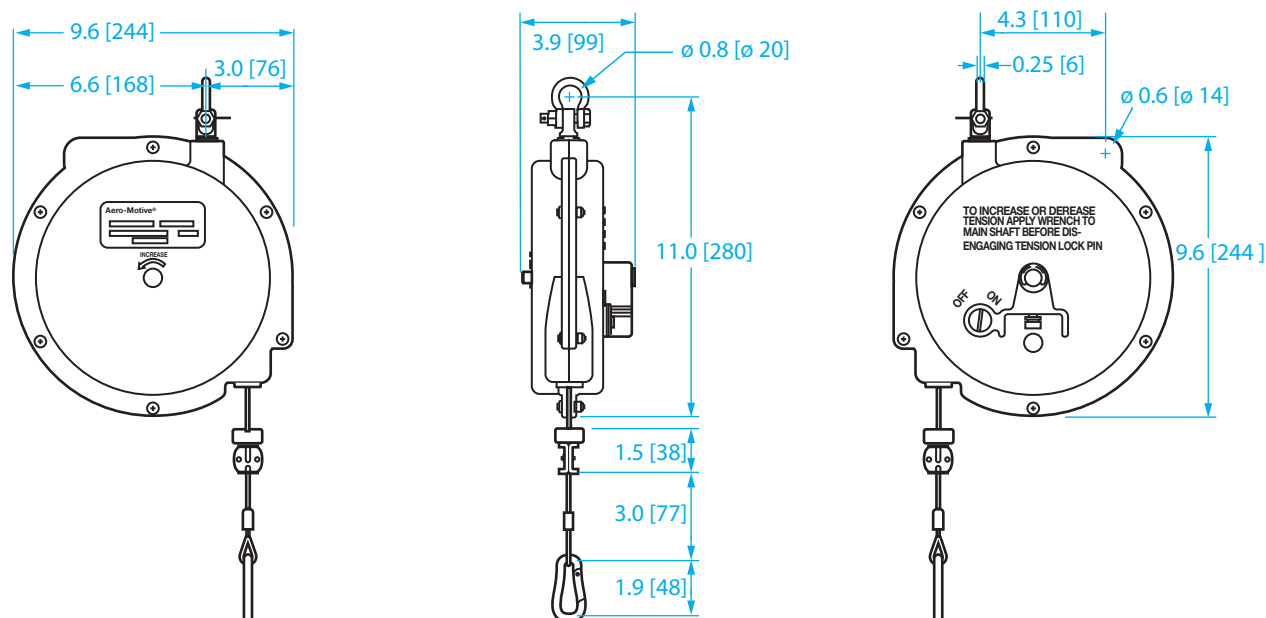
Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
5FLRC	130174-0014	0.8 to 3.2	2.0 to 7.0	2.4m (8.0')	Yes
10FLRC	130174-0001	1.8 to 4.5	4.0 to 10.0		
22FLRC	130174-0009	3.6 to 10.0	8.0 to 22.0		

Note: Sales drawings for all standard order numbers are available on molex.com

Unit Dimension Specification

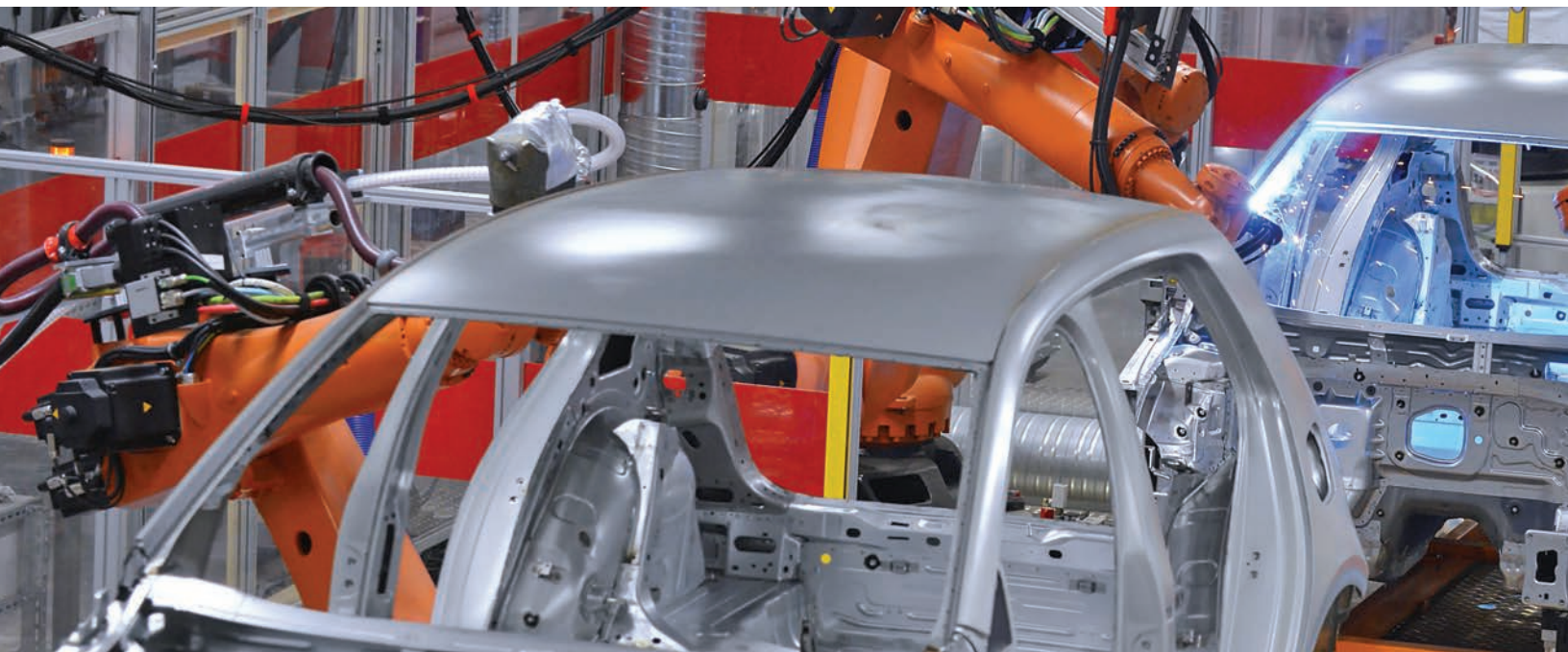
(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

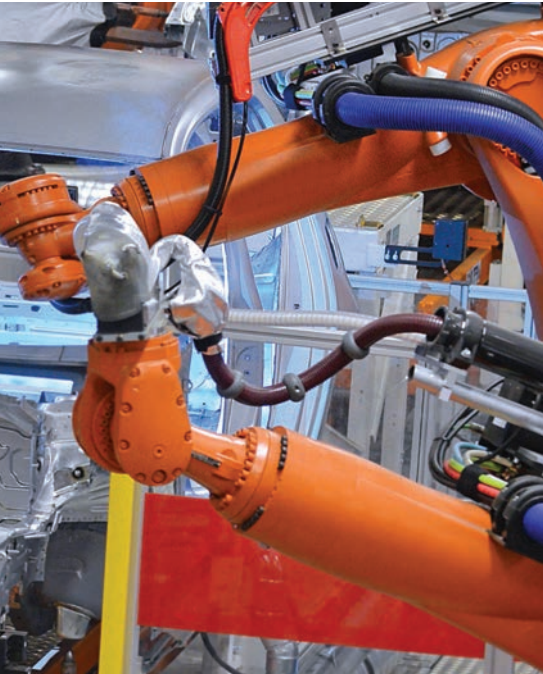
Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
5FLRC	165	7	287	11	300	12	5.0	11.0
10FLRC								
22FLRC	165	7	287	11	300	12	5.9	13.0

Specifications for reference only $\pm 10\%$. Subject to change without notice.



Balancers are devices designed to provide true balance or referred to as Zero Gravity for a specified load at any position within the active cable travel. A true balance condition is achieved through precise power-spring tension control and a unique cable drum design which matches the torque buildup from the power spring.

Tools or loads attached to Aero-Motive Balancers become almost weightless in the hands of operators, allowing maximum freedom to work more efficiently and reduce fatigue throughout work shifts, leading to increased productivity.



Aero-Motive® Balancers



APPLICATIONS

GENERAL INDUSTRIAL

MANUFACTURING/ASSEMBLY FACILITIES

WORKSTATIONS

PORTABLE TOOLS

ELECTRIC TOOLS

MECHANICAL TOOLS

PNEUMATIC TOOLS

CABLING & HOSES

WELDING GUNS

molex®

Aero-Motive®

Balancers

molex®

*AB and ABRL Series
Light Industrial Duty*

Designed for the light weight and small assembly tools to provide best ergonomics and long lasting life cycles. Balancers provide a cost-effective solution for improving productivity while keeping work stations organized and safeguarding expensive power tools from accidental drops.

Product Features*

Automatic Safety Lock: No

Manual Safety Lock: No

Upper Mount: 360° Swivel

External Tension Adjustment: Hex Cam and Lock Lever

Ratchet Lock (ON/OFF): ABRL Model

Secondary Support: Factory Equipped with Safety Chain

Serviceable: No

Upper Mount: 360° Swivel
with Snap hook and Lock-Nut

High-Impact ABS Housing

Rubber Shock Absorber

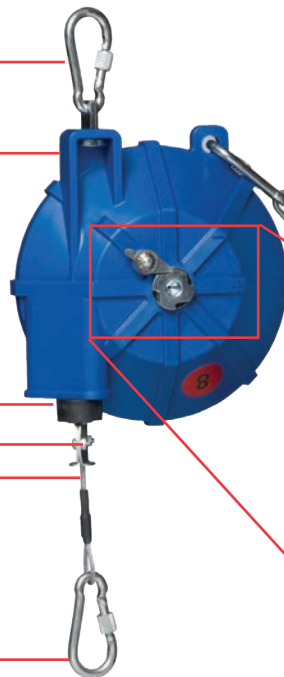
Adjustable Cable Stop

Standard: 2.5mm (DIA) - [7 x 7]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Snap Hook and Lock-Nut



Secondary Support



External Tension Adjustment:
Hex Cam and Lock Lever

* **Feature Identifiers** (in bold) defined on pages 6 to 9.

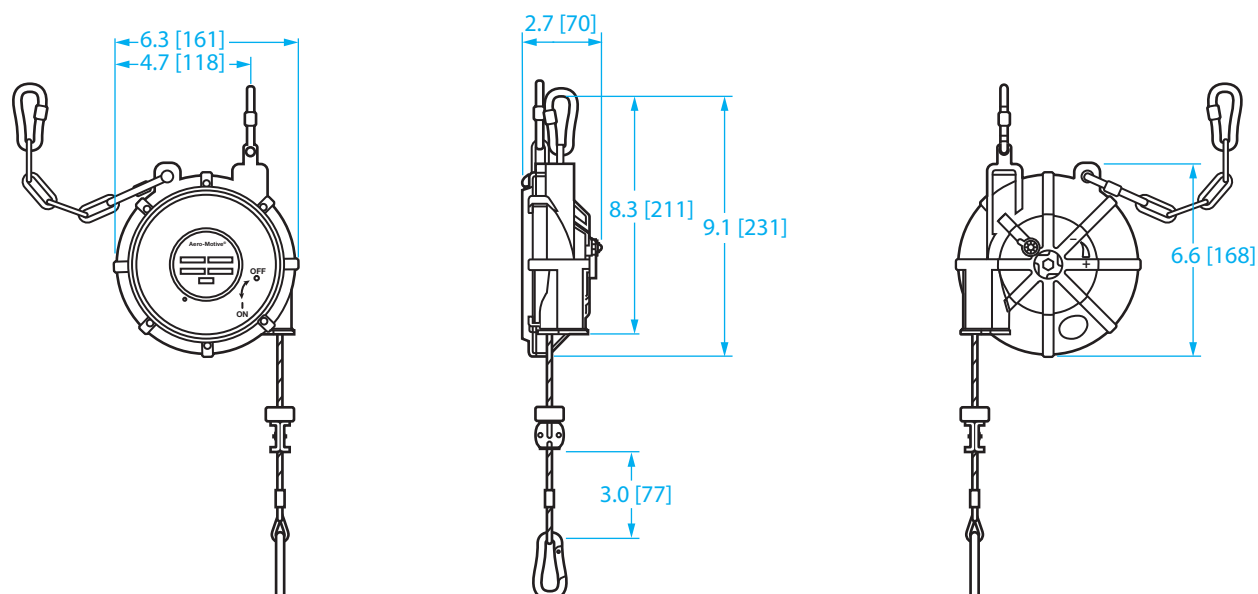
AB and ABRL Series
Light Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
AB4	130237-0001	0.7 to 1.8	1.5 to 4.0	1.6m (5.3')	No
AB8	130237-0002	1.8 to 3.6	4.0 to 8.0		
AB11	130237-0003	3.6 to 5.0	8.0 to 11.0		
AB4RL	130237-0004	0.7 to 1.8	1.5 to 4.0		
AB8RL	130237-0005	1.8 to 3.6	4.0 to 8.0		
AB11RL	130237-0006	3.6 to 5.0	8.0 to 11.0		

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
AB Series	135	5	198	8	267	11	1.5	3.5
ABRL Series								

Specifications for reference only [$\pm 10\%$]. Subject to change without notice.

Aero-Motive® Balancers

molex®

*BF and BFL Series
Light Industrial Duty*

BF series balancers provide true balance or Zero Gravity for tools weighing up to 24 lb [11kg], anywhere within the active cable travel. Equipped with both automatic and manual safety lock, BF & BFL balancers prevent tools or loads from falling in the event that a unit loses tension or if a power spring failure would occur.

Product Features*

Automatic Safety Lock: Yes

Manual Safety Lock: Yes

Upper Mount: 360° Swivel Hanger

External Tension Adjustment: Shaft and Push Cam

Ratchet Lock (ON): BFL Model

Secondary Support: Safety Cable (Optional)

Serviceable: Yes with Aero-Motive Repair
Parts or Kits

Secondary Support: Mount Hole
for Safety Cable (Optional)

High-Impact ABS Housing

Main Shaft: Easy Unit
Tension Adjustment

Rubber Shock Absorber

Adjustable Cable Stop

Standard: 3.0mm (DIA) - [7 x 19]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Snap Hook for Easy Tool
Attachment or Removal



Cable Guide: Snap fit —
high-impact plastic



Upper Mount: 360° Swivel
with Safety Cotter Pin



Push Cam: Easy Unit
De-Tensioning



External Tension Adjustment:
Shaft and Push Cam

* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

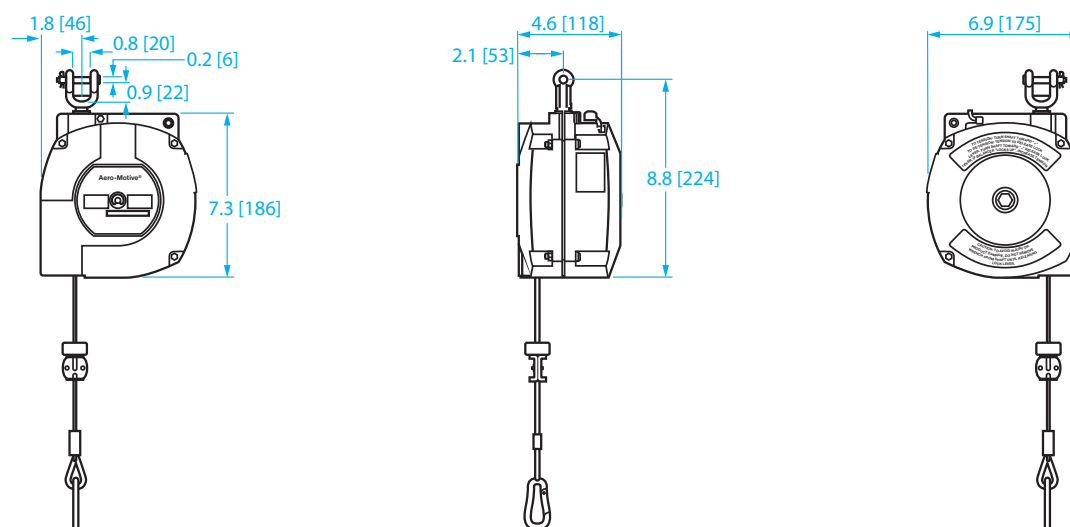
BF and BFL Series
Light Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
BF6	130170-0021	1.4 to 2.7	3.0 to 6.0	2.0m (6.6')	Yes
BF9	130170-0023	2.7 to 4.1	6.0 to 9.0		
BF13	130170-0015	4.1 to 5.9	9.0 to 13.0		
BF18	130170-0017	5.9 to 8.2	13.0 to 18.0		
BF24	130170-0019	8.2 to 10.9	18.0 to 24.0		
BFL6	130170-0032	1.4 to 2.7	3.0 to 6.0		
BFL9	130170-0033	2.7 to 4.1	6.0 to 9.0		
BFL13	130170-0025	4.1 to 5.9	9.0 to 13.0		
BFL18	130170-0027	5.9 to 8.2	13.0 to 18.0		
BFL24	130170-0030	8.2 to 10.9	18.0 to 24.0		

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
BF	127	5	185	7	312	12	3.0	6.7
BFL								

Specifications for reference only [±10%]. Subject to change without notice.

Aero-Motive® Balancers

molex

*EB & EBS and EBR & EBSR Series
Standard Industrial Duty*

EB balancers provide true balance or Zero Gravity for tools weighing up to 45 lb [21 kg] while Cast Aluminum Housings make these products a perfect fit for Standard Industrial Applications. Equipped with a Vertical Worm Gear Tension Adjustment which provides easy and precise power spring tension control.

Product Features*

Automatic Safety Lock: Yes

Manual Safety Lock: Yes

Upper Mount: 360° Swivel

External Tension Adjustment: Worm Gear Vertical

Ratchet Lock (ON): EBR Model

Secondary Support: Factory Equipped with Safety Chain

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Upper Mount: 360° Swivel

Industrial Grade Shackle

High-Pressure Thick
Cast Aluminum Housings

Rubber Shock Absorber

Adjustable Cable Stop

Standard: 3.0mm (DIA) - [7 x 19]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Industrial-Grade Eye Hook
with Spring-Loaded Latch

Cable Guide: Snap fit
— high-impact plastic

Manual Safety Lock:
"Push/Pull" Lever

**Secondary
Support**

**External Tension
Adjustment:** Worm
Gear Vertical

* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

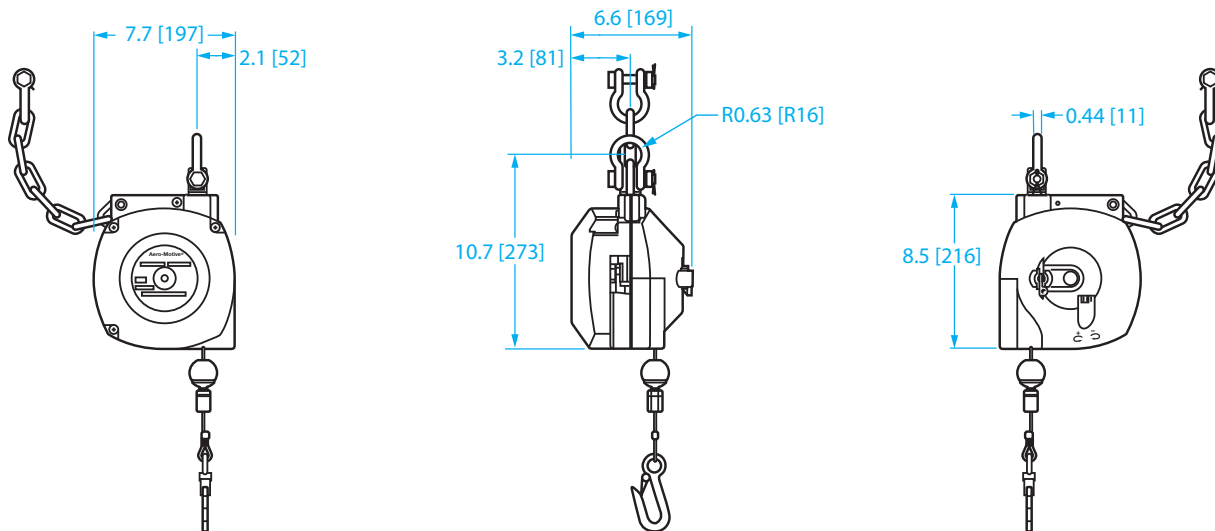
EB & EBS and EBR & EBSR Series
Standard Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable	
25EB	130171-0300	8.2 to 11.4	18.0 to 25.0	2.0m (6.6')	Yes	
35EB	130171-0302	11.4 to 15.9	25.0 to 35.0			
45EB	130171-0305	15.9 to 20.5	35.0 to 45.0			
25EBR	130171-0301	8.2 to 11.4	18.0 to 25.0			
35EBR	130171-0303	11.4 to 15.9	25.0 to 35.0			
45EBR	130171-0306	15.9 to 20.5	35.0 to 45.0			
48EBS	130171-0307	15.9 to 21.8	35.0 to 48.0	1.5m (4.9')		
60EBS	130171-0309	20.5 to 27.3	45.0 to 60.0			
48EBSR	130171-0308	15.9 to 21.8	35.0 to 48.0			
60EBSR	130171-0310	20.5 to 27.3	45.0 to 60.0			

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
EB & EBR	280	11	381	15	324	13	10.0	22.0
EBS & EBSR								

Specifications for reference only [±10%]. Subject to change without notice.

EA Series Heavy Industrial Duty

Equipped with Vertical Worm Gear Tension Adjustment which provides easy and precise power spring tension control. Aero-Motive EA balancers include an easy cable change-over feature, enabling users to perform cable changes while the unit is still in service, thus reducing application down time.

Product Features*

Automatic Safety Lock: Yes—Power-Based Design

Manual Safety Lock: Yes

Upper Mount: 360° Swivel

External Tension Adjustment: Worm Gear Vertical

WearGuard™ Epoxy: Extends Cable and Drum Life

Decutching Spring Hub: Prevents Power Spring Damage

Secondary Support: Factory Equipped with Safety Chain

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Upper Mount: 360° Swivel

Industrial Grade Shackle

Dual Hole Mount Position for
Cable and Guide Alignment

High-Pressure Extra-Thick
Cast Aluminum Housings

Cable Guide: Hardened Steel

Rubber Shock Absorber

Adjustable Cable Stop

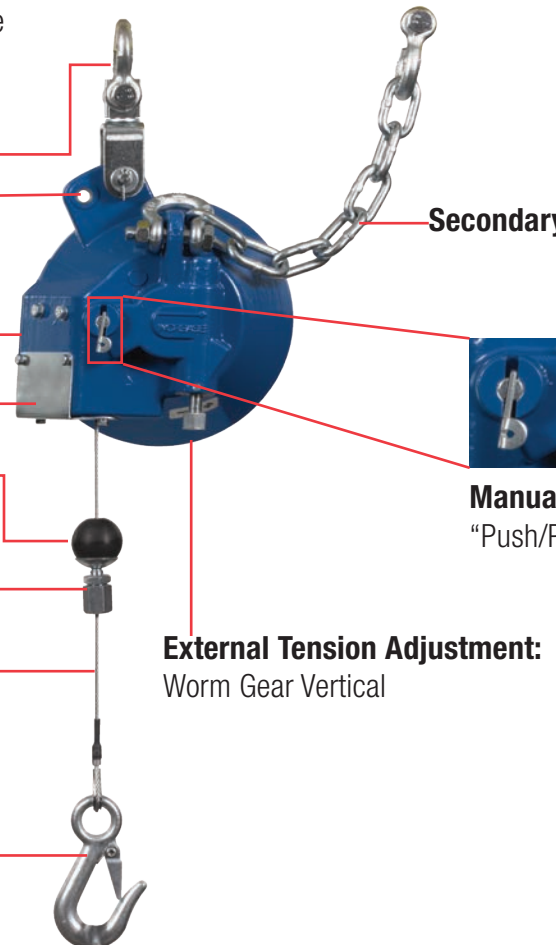
Standard: 3.0mm (DIA) - [7 x 19]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Industrial-Grade Eye Hook
with Spring-Loaded Latch

Secondary Support

Manual Safety Lock:
“Push/Pull” Lever

External Tension Adjustment:
Worm Gear Vertical



* **Feature Identifiers** (in bold) defined on pages 6 to 9.

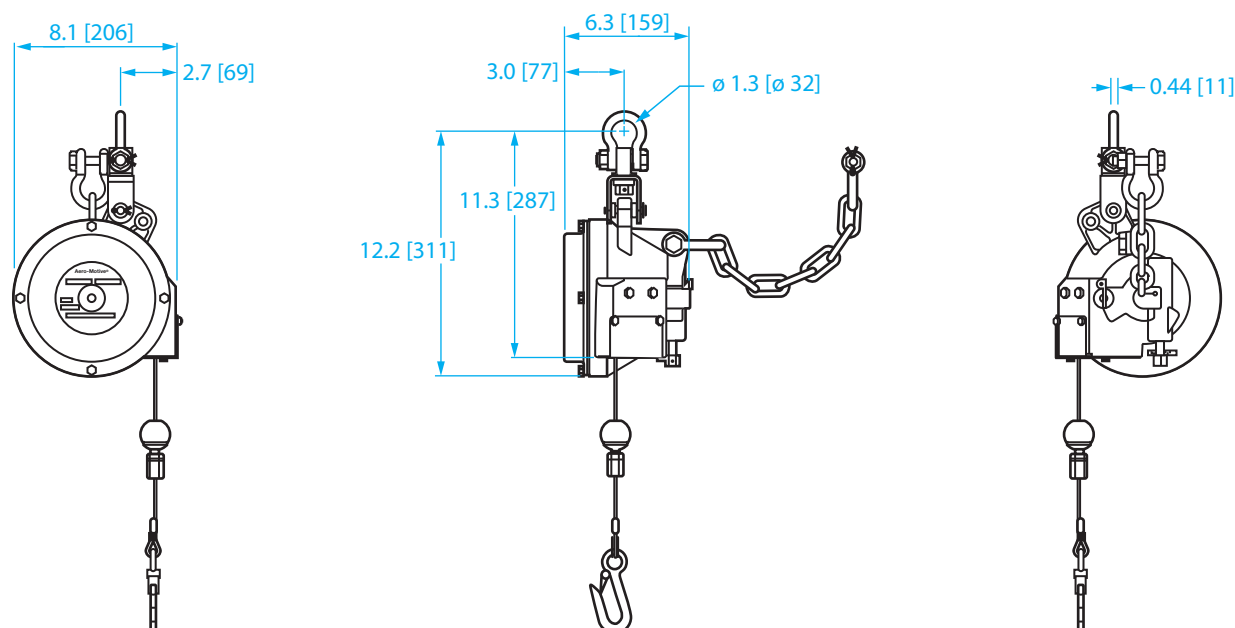
EA Series
Heavy Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
10EA	130172-0020	2.3 to 5.0	5.0 to 11.0	1.8m (6.0')	Yes
20EA	130172-0103	5.0 to 9.0	11.0 to 20.0		
30EA	130172-0152	9.0 to 14.0	20.0 to 31.0		
40EA	130172-0184	13.0 to 18.0	29.0 to 40.0		
50EA	130172-0195	18.0 to 23.0	40.0 to 51.0		
60EA	130172-0207	23.0 to 28.0	51.0 to 62.0		

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
EA Series	330	13	203	8	304	12	8.6	19.0

Specifications for reference only $\pm 10\%$. Subject to change without notice.

EL Series Heavy Industrial Duty

EL Series balancers share the same design features as the EA Series balancers, but employ a Ratchet Lock feature which can be turned ON or OFF depending on application requirements. The ratchet lock feature is designed to be able to lock the load in place at any desired position along the active cable travel and can withstand loads of up to 62 lb [28 kg].

Product Features*

Automatic Safety Lock: Yes—Power-Based Design

Manual Safety Lock: Yes

Upper Mount: 360° Swivel

Ratchet Lock (ON/OFF): Yes

External Tension Adjustment: Worm Gear Vertical

WearGuard™ Epoxy: Extends Cable and Drum Life

Declutching Spring Hub: Prevents Power Spring Damage

Secondary Support: Factory Equipped with Safety Chain

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Upper Mount: 360° Swivel

Industrial Grade Shackle

Dual Hole Mount Position
for Cable and Guide Alignment

High-Pressure Extra-Thick
Cast Aluminum Housings

Cable Guide: Hardened Steel

Rubber Shock Absorber

Adjustable Cable Stop

Industrial-Grade Eye Hook
with Spring-Loaded Latch

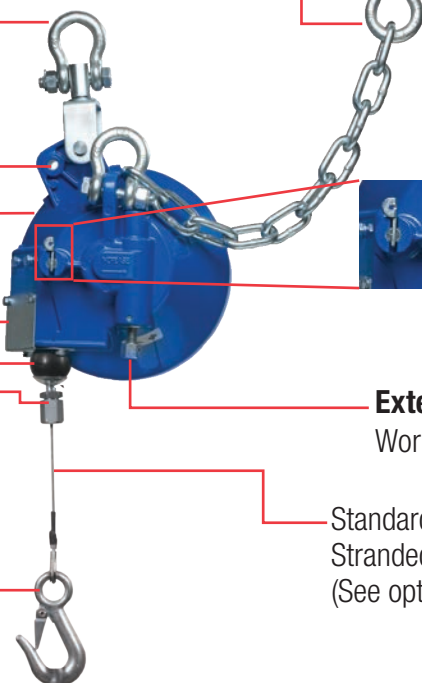
Secondary Support

Manual Safety Lock:
“Push/Pull” Lever

External Tension Adjustment:
Worm Gear Vertical

Standard: 3.0mm (DIA) - [7 x 19]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Ratchet Lock (ON/OFF):
Turns ON or OFF Easily



* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

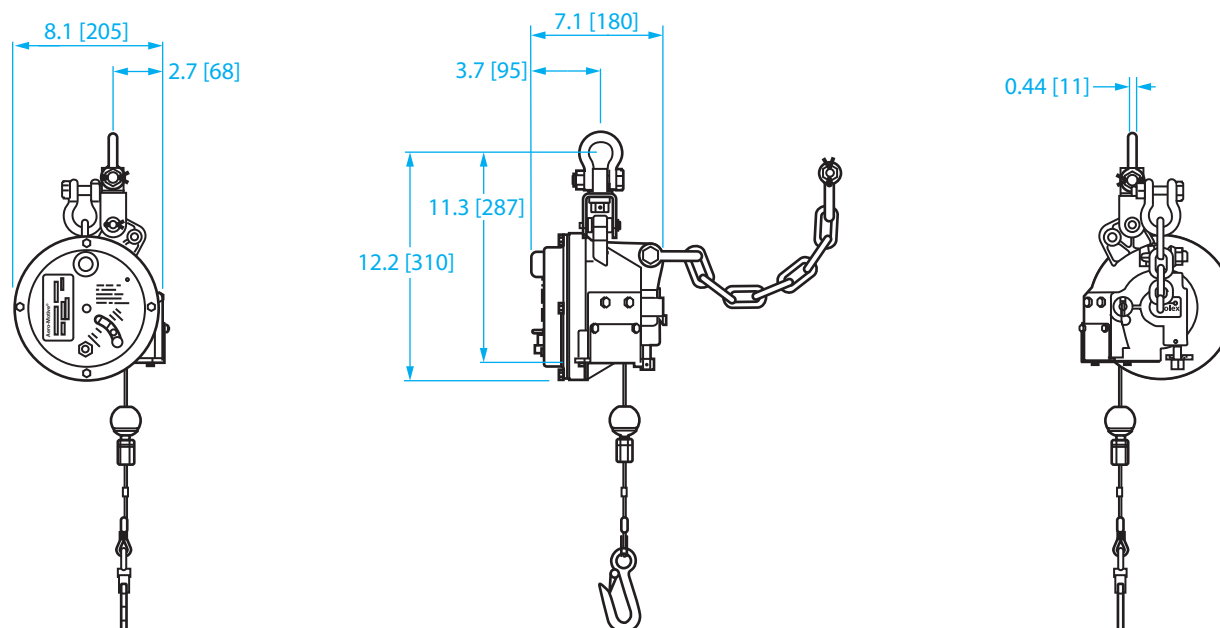
EL Series
Heavy Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
10EL	130172-0637	2.3 to 5.0	5.0 to 11.0	1.8m (6.0')	Yes
25EL	130172-0133	5.4 to 11.3	12.0 to 25.0		
40EL	130172-0186	11.8 to 18.0	26.0 to 40.0		
50EL	130172-0197	18.0 to 23.0	40.0 to 51.0		
60EL	130172-0208	23.0 to 28.0	51.0 to 62.0		

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
EL Series	330	13	203	8	304	12	9.5	21.0

Specifications for reference only [$\pm 10\%$]. Subject to change without notice.

JA Series Heavy Industrial Duty

JA Series balancers, equipped with one power spring, were designed specifically for Heavy Industrial Applications and are ideal for balancing industrial tools weighing up to 100 lb [45 kg]. Tools attached to JA Series balancers become almost weightless in the hands of operators, allowing maximum freedom to work more efficiently and reduce fatigue throughout work shifts.

Product Features*

Automatic Safety Lock: Yes—Power-Based Design

Manual Safety Lock: Yes

Upper Mount: 360° Swivel

External Tension Adjustment: Worm Gear Vertical

WearGuard™ Epoxy: Extends Cable and Drum Life

Declutching Spring Hub: Prevents Power Spring Damage

Secondary Support: Factory Equipped with Safety Chain

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Upper Mount: 360° Swivel

Industrial Grade Shackle

High-Pressure Extra Thick
Cast Aluminum Housings

Manual Safety Lock:

“Push/Pull” Lever

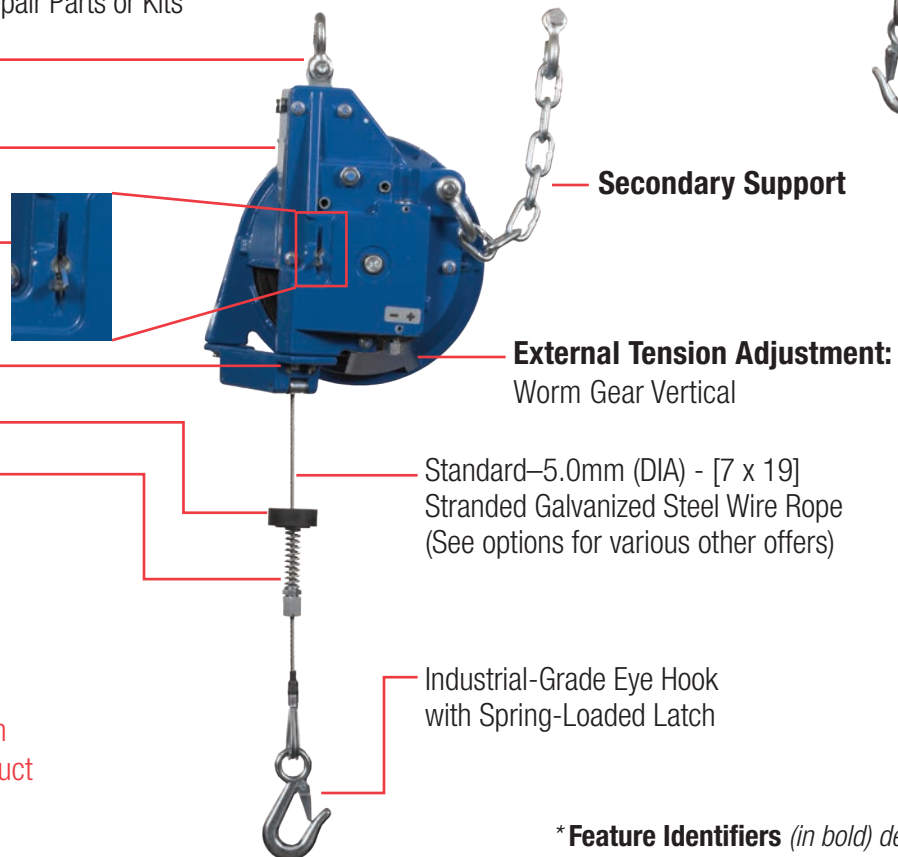
Cable Guide:

Unique Design with Rollers

Rubber Shock Absorber

Adjustable Cable Stop

Options including Upper Shackle Mounts, special cable assemblies etc. are available. Please inquire with Molex Sales Engineer or Global Product Manager for details.



* **Feature Identifiers** (in bold) defined on pages 6 to 9.

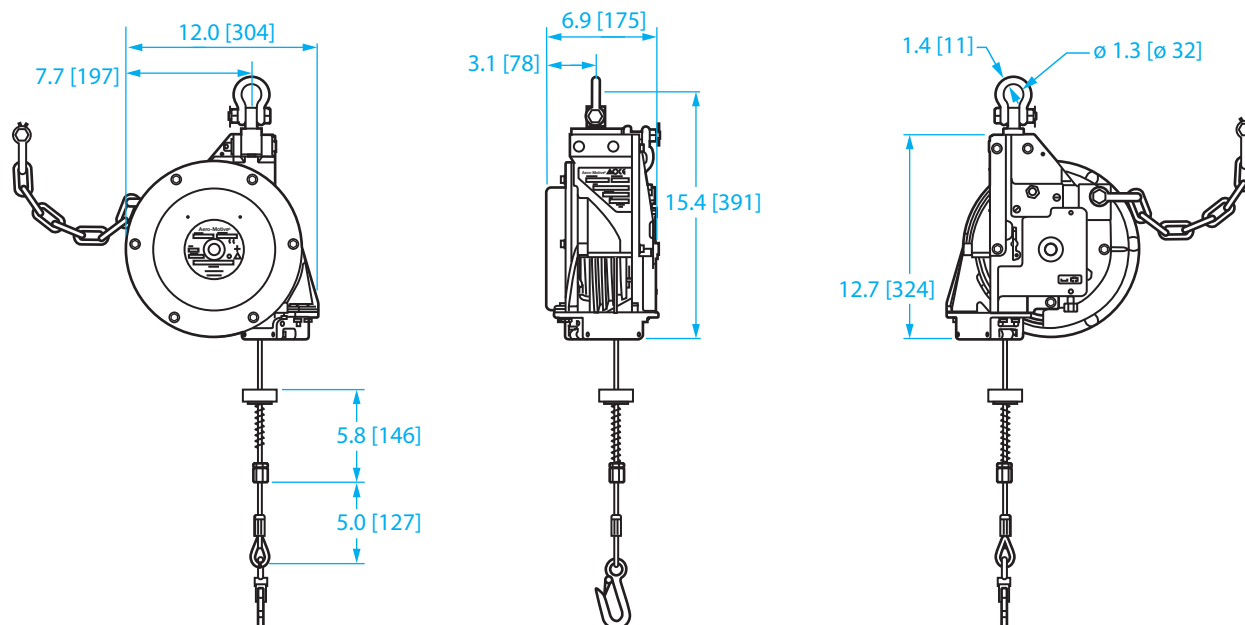
JA Series Heavy Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
20JA	130172-0106	6.0 to 11.0	13 to 25	2.1m (7.0')	Yes
30JA	130172-0157	11.0 to 16.0	24 to 35		
40JA	130172-0189	13.0 to 20.0	29 to 45		
50JA	130172-0199	18.0 to 25.0	40 to 55		
60JA	130172-0210	25.0 to 30.0	55 to 65		
70JA	130172-0221	24.0 to 32.0	53 to 70		
80JA	130172-0241	31.0 to 39.0	68 to 86		
90JA	130172-0296	36.0 to 41.0	79 to 90		
100JA	130172-0015	40.0 to 45.0	88 to 100		

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
JA Series	380	15	340	13	490	19	17.5	38.0

Specifications for reference only $\pm 10\%$. Subject to change without notice.

JA Series with Remote Lock Heavy Industrial Duty

JA balancers with Remote Lock feature enable qualified employees to speedily lock or unlock the cable drum, which is under constant tension, preventing cable fly-backs while performing quick change-overs. The main applications are welding control boxes where constant input changes are performed daily and there is a need to easily move the control box up or down and lock it in place.

Product Features

- JA Series with Remote Lock share same features as the standard JA Series except for the Remote Manual Safety Lock feature.
- Safety Lock can be engaged or disengaged remotely via a cam/lever arm which is conveniently operated via chains with handle at floor level rather than at the height where balancer is mounted.
- Chain length for remote handle can be adjusted to match unit installation height.



Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
20JA-RL	130172-0639	6.0 to 11.0	13 to 25	2.1m (7.0')	Yes
30JA-RL	130172-0768	11.0 to 16.0	24 to 35		
40JA-RL	130172-0769	13.0 to 20.0	29 to 45		
50JA-RL	130172-0770	18.0 to 25.0	40 to 55		
60JA-RL	130172-0771	25.0 to 30.0	55 to 65		
70JA-RL	130172-0772	24.0 to 32.0	53 to 70		
80JA-RL	130172-0773	31.0 to 39.0	68 to 86		
90JA-RL	130172-0774	36.0 to 41.0	79 to 90		
100JA-RL	130172-0640	40.0 to 45.0	88 to 100		

Options including Upper Shackle Mounts, special cable assemblies etc. are available. Please refer to the Options pages for details. Simply add proper suffixes to JA Model numbers shown in table.

Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
JA-RL Series	380	15	340	13	490	19	21.5	46.0

Specifications for reference only [$\pm 10\%$]. Subject to change without notice.

JA Series with Cable Arrest Heavy Industrial Duty

Balancers with Cable Arrest feature are designed to enhance safety and eliminate cable fly-back caused by cable failures or accidental tool detachments which could cause unsafe work conditions for employees handling balancers. In some countries the cable arrest feature is mandatory by law.

Product Features

- JA Series with **Cable Arrest** share same features as the standard JA Series except for the Cable Arrest safety feature.
- Units equipped with **Cable Arrest** can be visually identified on the plant floor by a Nickel plate ring.
- **Cable Arrest** is designed such that maintenance can be performed with ease using Aero-Motive repair parts to maintain integrity of unit.



Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
20JA-CA	130172-0759	6.0 to 11.0	13 to 25	2.1m (7.0')	Yes
30JA-CA	130172-0760	11.0 to 16.0	24 to 35		
40JA-CA	130172-0761	13.0 to 20.0	29 to 45		
50JA-CA	130172-0762	18.0 to 25.0	40 to 55		
60JA-CA	130172-0763	25.0 to 30.0	55 to 65		
70JA-CA	130172-0764	24.0 to 32.0	53 to 70		
80JA-CA	130172-0765	31.0 to 39.0	68 to 86		
90JA-CA	130172-0766	36.0 to 41.0	79 to 90		
100JA-CA	130172-0767	40.0 to 45.0	88 to 100		

Options including Upper Shackle Mounts, special cable assemblies etc. are available. Please refer to the Options pages for details. Simply add proper suffixes to JA Model numbers shown in table.

Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
JA-CA Series	380	15	340	13	490	19	21.5	46.0

Specifications for reference only [$\pm 10\%$]. Subject to change without notice.

KA Series Heavy Industrial Duty

KA balancers, equipped with two power springs, are the work-horses for the heavy industrial tools weighing up to 240 lb [110 kg]. Automatic Safety Lock system is a Power Based System which triggers on power loss from any of the two power springs. The Safety Lock system can be easily adjusted and fully tested by qualified personnel to meet desired Safety Lock expectations.

Product Features*

Automatic Safety Lock: Yes—Power Based and Adjustable

Manual Safety Lock: Yes

Upper Mount: 360° Swivel

External Tension Adjustment: Worm Gear Vertical

WearGuard™ Epoxy: Extends Cable and Drum Life

Declutching Spring Hub: Prevents Power Spring Damage

Secondary Support: Factory Equipped with Safety Chain

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Upper Mount: 360° Swivel

Industrial Grade Shackle

High-Pressure Extra-Thick
Cast Aluminum Housings

Manual Safety Lock:

“Push/Pull” Lever

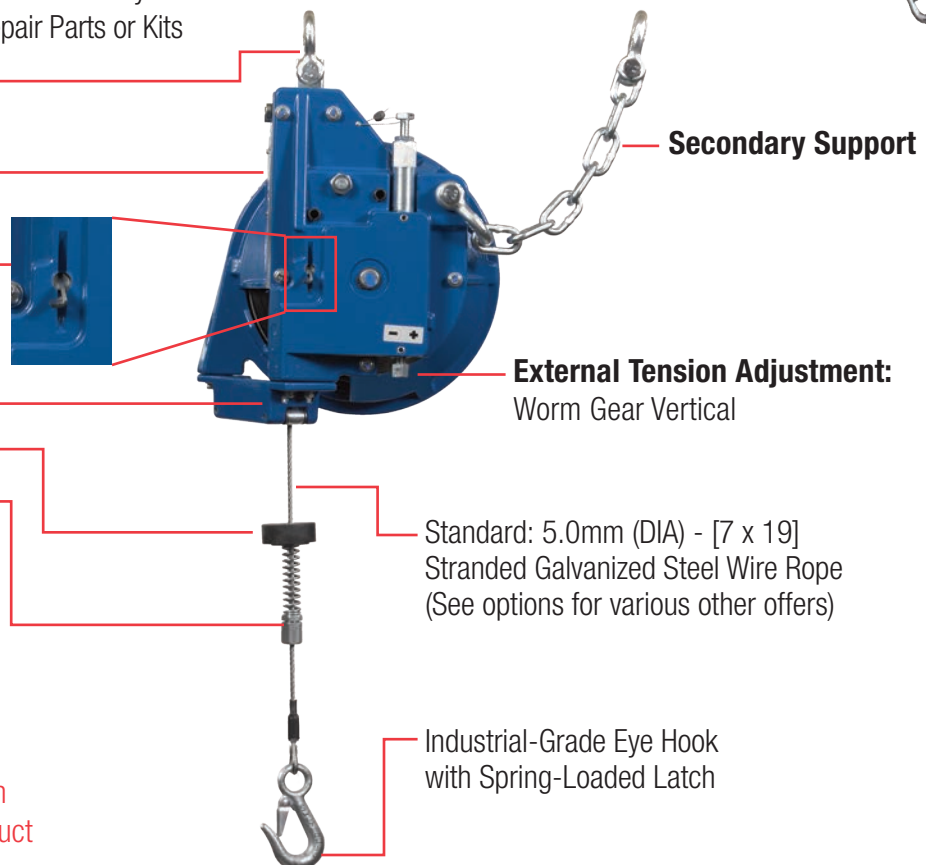
Cable Guide:

Unique Design with Rollers

Rubber Shock Absorber

Adjustable Cable Stop

Options including Upper Shackle Mounts, special cable assemblies etc. are available. Please inquire with Molex Sales Engineer or Global Product Manager for details.



* **Feature Identifiers** (in bold) defined on pages 6 to 9.

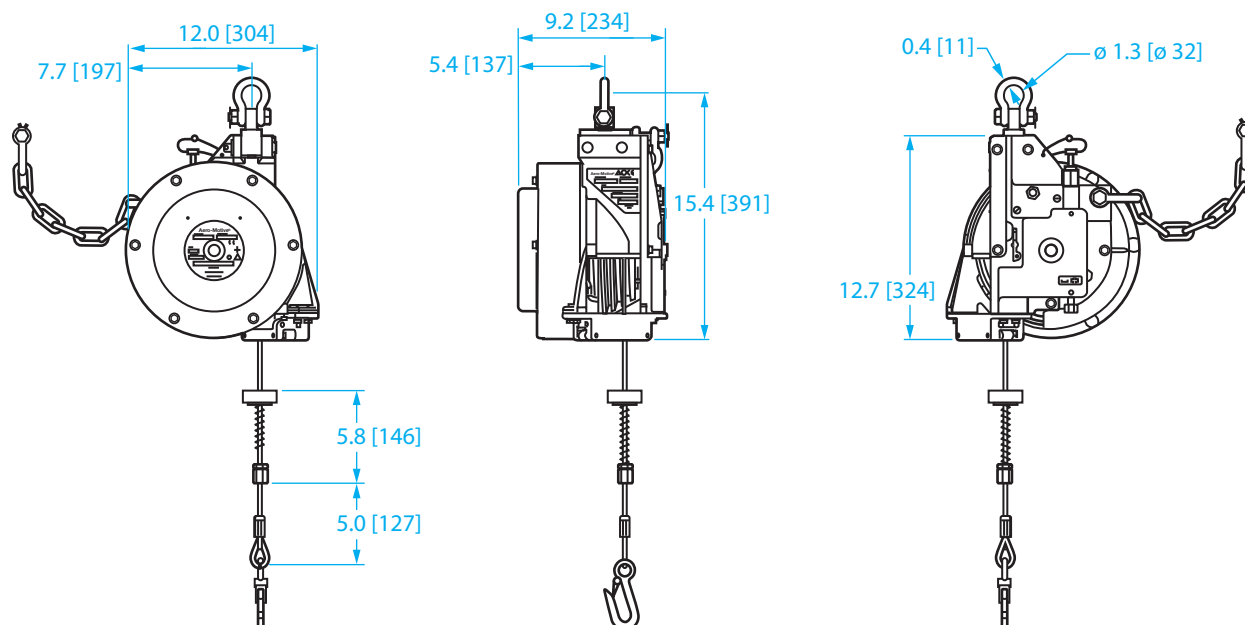
KA Series Heavy Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Travel (m)	Weight Range (lb)	Travel (ft)
115KA	130172-0875	38 to 52	2.1	84 to 115	7.0
125KA	130172-0785	52 to 57	2.1	115 to 125	7.0
145KA	130172-0786	56 to 66	2.1	124 to 145	7.0
165KA	130172-0787	65 to 75	2.1	143 to 165	7.0
175KA	130172-0788	72 to 79	2.1	159 to 175	7.0
200KA	130172-0098	79 to 91	2.1	175 to 200	7.0
220KA	130172-0116	90 to 100	2.1	200 to 220	7.0
240KA	130172-0124	100 to 110	2.1	220 to 240	7.0

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
KA Series	380	15	340	13	490	19	28.0	6.2

Specifications for reference only [$\pm 10\%$]. Subject to change without notice.

KA Series with Remote Lock Heavy Industrial Duty

KA balancers with Remote Manual Safety Lock are offering an additional Safety Feature for applications where loads have to be constantly moved up or down and locked at different final positions by means of engaging the manual lock without using lifting equipment to get to the main balancer but from floor position.

Product Features

- KA Series with Remote Lock share same features as the standard KA Series except for the Remote Manual Safety Lock feature.
- Safety Lock can be engaged or disengaged remotely via a cam/lever arm which is conveniently operated via chains with handle at floor level rather than at the height where balancer is mounted.
- Chain length for remote handle can be adjusted to match unit installation height.



Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Travel (m)	Weight Range (lb)	Travel (ft)
115KA-RL	130172-0882	38 to 52	2.1	84 to 115	7.0
125KA-RL	130172-0792	52 to 57	2.1	115 to 125	7.0
145KA-RL	130172-0793	56 to 66	2.1	124 to 145	7.0
165KA-RL	130172-0794	65 to 75	2.1	143 to 165	7.0
175KA-RL	130172-0795	72 to 79	2.1	159 to 175	7.0
200KA-RL	130172-0796	79 to 91	2.1	175 to 200	7.0
220KA-RL	130172-0641	90 to 100	2.1	200 to 220	7.0
240KA-RL	130172-0797	100 to 110	2.1	221 to 240	7.0

Options including Upper Shackle Mounts, special cable assemblies etc. are available. Please refer to the Options pages for details. Simply add proper suffixes to KA Model numbers shown in table.

Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
KA-RL Series	380	15	340	13	490	19	32.0	70.0

Specifications for reference only [$\pm 10\%$]. Subject to change without notice.

KA Series with Cable Arrest Heavy Industrial Duty

Cable Arrest is an important additional safety feature available for the KA series because these balancers store a lot of mechanical energy in order to counter weights up to 240 lb [110 kg]. If an accidental tool detachment were to occur, the cable fly-back would cause a very unsafe work condition for any employee handling the units. This is why, in some countries, the cable arrest feature is mandatory by law.

Product Features

- KA Series with Cable Arrest share same features as the standard KA Series except for the Cable Arrest safety feature.
- Units equipped with Cable Arrest can be visually identified on the plant floor by a Nickel plate ring.
- Cable Arrest is designed such that maintenance can be performed with ease using Aero-Motive repair parts to maintain integrity of unit.



Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Travel (m)	Weight Range (lb)	Travel (ft)
115KA-CA	130172-0880	38 to 52	2.1	84 to 115	7.0
125KA-CA	130172-0799	52 to 57	2.1	115 to 125	7.0
145KA-CA	130172-0800	56 to 66	2.1	124 to 145	7.0
165KA-CA	130172-0801	65 to 75	2.1	143 to 165	7.0
175KA-CA	130172-0802	72 to 79	2.1	159 to 175	7.0
200KA-CA	130172-0803	79 to 91	2.1	175 to 200	7.0
220KA-CA	130172-0832	90 to 100	2.1	200 to 220	7.0
240KA-CA	130172-0804	100 to 110	2.1	221 to 240	7.0

Options including Upper Shackle Mounts, special cable assemblies etc. are available. Please refer to the Options pages for details. Simply add proper suffixes to KA Model numbers shown in table.

Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
KA-CA Series	380	15	340	13	490	19	32.0	70.0

Specifications for reference only [$\pm 10\%$]. Subject to change without notice.

Aero-Motive®

Balancers

molex®

LA Series Heavy Industrial Duty

LA balancers, equipped with three power springs, have been designed for the heavy weight industrial tools weighing up to 370 lb [168 kg], working into Heavy Industrial Duty Applications. Automatic Safety Lock system is a Power Based System which triggers on power loss from any of the three power springs.

Product Features*

Automatic Safety Lock: Yes

Manual Safety Lock: Yes

Upper Mount: 360° Swivel

External Tension Adjustment: Worm Gear Vertical

WearGuard™ Epoxy: Extends Cable and Drum Life

Declutching Spring Hub: Prevents Power Spring Damage

Secondary Support: Factory Equipped with Safety Chain

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Secondary Support

High-Pressure Extra-Thick
Cast Aluminum Housings

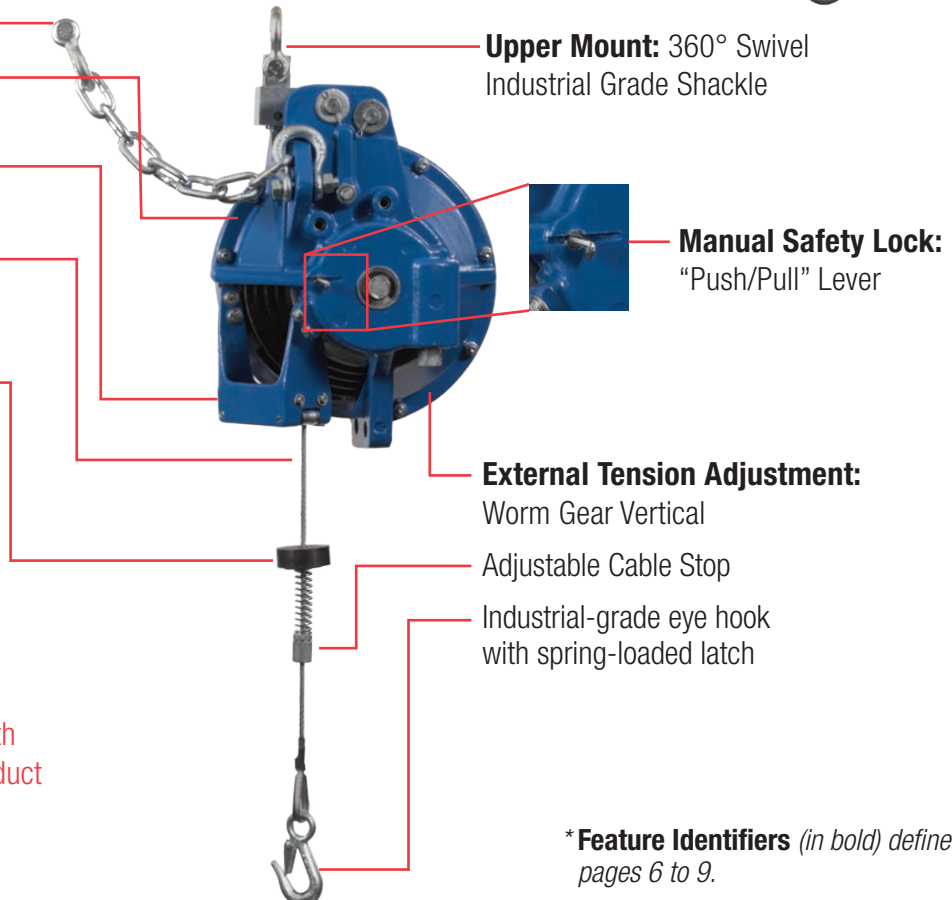
Cable Guide:

Unique Design with Rollers

Standard: 5.0mm (DIA) - [7 x 19]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Rubber Shock Absorber

Options including Upper Shackle
Mounts, special cable assemblies
etc. are available. Please inquire with
Molex Sales Engineer or Global Product
Manager for details.



* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

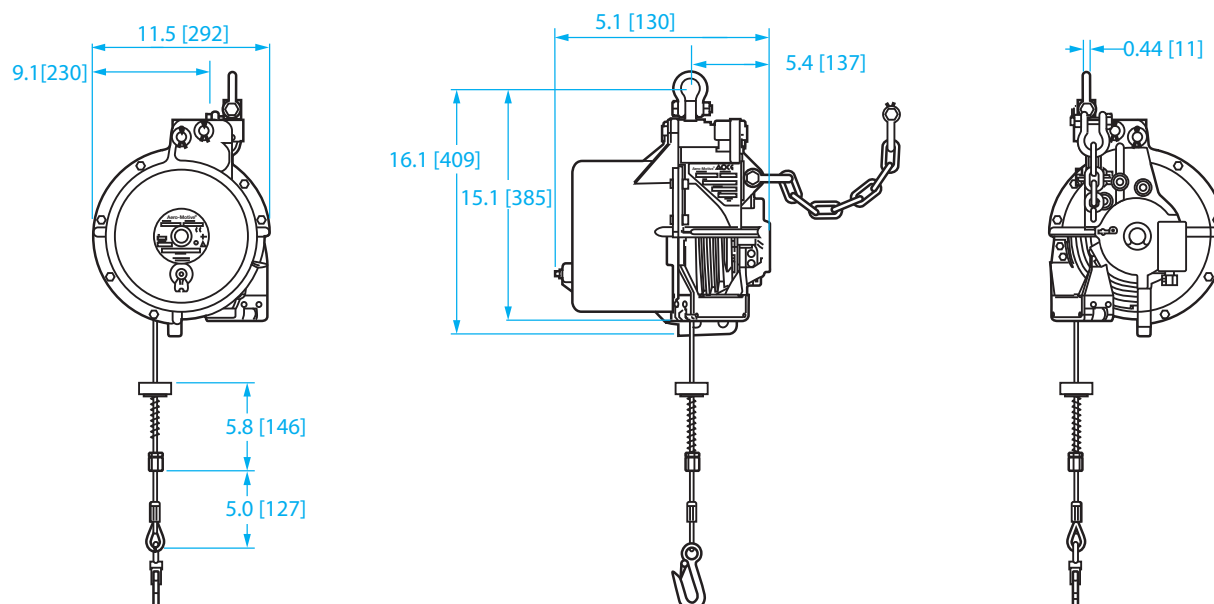
LA Series Heavy Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
210LA	130172-0109	79.0 to 95.0	174 to 210	2.1m (7.0')	Yes
230LA	130172-0118	95.0 to 107.0	209 to 236		
250LA	130172-0126	106.0 to 113.0	234 to 250		
260LA	130172-0135	113.0 to 120.0	249 to 265		
280LA	130172-0140	120.0 to 127.0	265 to 280		
290LA	130172-0143	127.0 to 132.0	280 to 291		
300LA	130172-0146	131.0 to 136.0	289 to 300		
330LAS	130172-0169	136.0 to 150.0	300 to 331	1.5m (5.0')	
350LAS	130172-0176	150.0 to 159.0	330 to 350		
370LAS	130172-0180	163.0 to 168.0	350 to 370		

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
LA Series	431	17	420	17	520	21	37.5	83.0

Specifications for reference only [±10%]. Subject to change without notice.

LA Series with Cable Arrest Heavy Industrial Duty

LA Series balancers when tensioned, store a lot of mechanical energy from the three power spring in order to be able to balance tools weighing up to 370 kg [168 kg]. Therefore any accidental cable fly-back would create a major safety hazard. By design the Cable Arrest feature is an important additional safety feature available for the LA Series designed to prevent any injury if a cable fly-back would occur.

Product Features

- › LA Series with Cable Arrest share same features as the standard LA Series except for the Cable Arrest safety feature.
- › Cable Arrest Series were designed such that they can be easily maintained using Aero-Motive repair parts to maintain unit integrity.



Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
210LA-CA	130172-0775	79.0 to 95.0	174 to 210	2.1m (7.0')	Yes
230LA-CA	130172-0776	95.0 to 107.0	209 to 236		
250LA-CA	130172-0777	106.0 to 113.0	234 to 250		
260LA-CA	130172-0778	113.0 to 120.0	249 to 265		
280LA-CA	130172-0779	120.0 to 127.0	265 to 280		
290LA-CA	130172-0780	127.0 to 132.0	280 to 291		
300LA-CA	130172-0781	131.0 to 136.0	289 to 300		
330LAS-CA	130172-0782	136.0 to 150.0	300 to 331	1.5m (5.0')	
350LAS-CA	130172-0783	150.0 to 159.0	330 to 350		
370LAS-CA	130172-0784	163.0 to 168.0	350 to 370		

Options including Upper Shackle Mounts, special cable assemblies etc. are available. Please refer to the Options pages for details. Simply add proper suffixes to LA Model numbers shown in table.

Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
LA-CA Series	431	17	420	17	520	21	40.3	89.0

Specifications for reference only [±10%]. Subject to change without notice.



Torque Reels are reeling devices primarily designed to be able to suspend push-button pendant stations or similar equipment weighing up to 15 lb [6.8 kg] with an active cable travel of 15' [4.6M].

A lock mechanism permits the operator to stop the pendant at a desired height, while a slight pull on the cable releases the lock and will retract the pendant to the upper suspended position.



Aero-Motive® Torque Reels



APPLICATIONS

GENERAL INDUSTRIAL
INDUSTRIAL FACILITIES
PENDANT STATIONS
PORTABLE TOOLS
CABLING & HOSES

molex®

Aero-Motive®

Torque Reels

molex®

*T and TR Series
Standard Industrial Duty*

Aero-Motive offers two mounting options for Torque Reels. T Models offer hanging type installation and share the same design features and envelope size as FLR Series Retractors. TR Models offer rigid mount type for both horizontal or vertical mounting positions, based on application and installation needs. T and TR models offer an active cable travel up to 15' [4.6m] and are capable of building tension of up to 19 lb [8.7 kg] to meet most pendent station weight requirements.

Product Features*

Automatic Safety Lock: No

Manual Safety Lock: No

Upper Mount [T Model]: Hanging—Shackle and Cotter Pin

Upper Mount [TR Model]: Rigid Mount—Vertical and Horizontal Mount

External Tension Adjustment: Shaft and Spring Friction Clutch

Ratchet Lock (ON/OFF): Yes

Secondary Support: Safety Cable (Optional)—T Models only

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Rigid Mount: TR Model

Vertical or Horizontal

External Tension Adjustment:

Friction Clutch—Easily Operated
(See service manual)

Ratchet Lock (ON/OFF):

Turns ON or OFF Easily

Cable Guide: Hardened Steel

Rubber Shock Absorber

Standard: 2.5mm(DIA) - [7 x 7]
Stranded Galvanized Steel Wire Rope
(See options for various other offers)

Snap Hook for Easy Tool
Attachment or Removal

Sheet Metal Housings to
Protect Spring and Drum

Adjustable Cable Stop

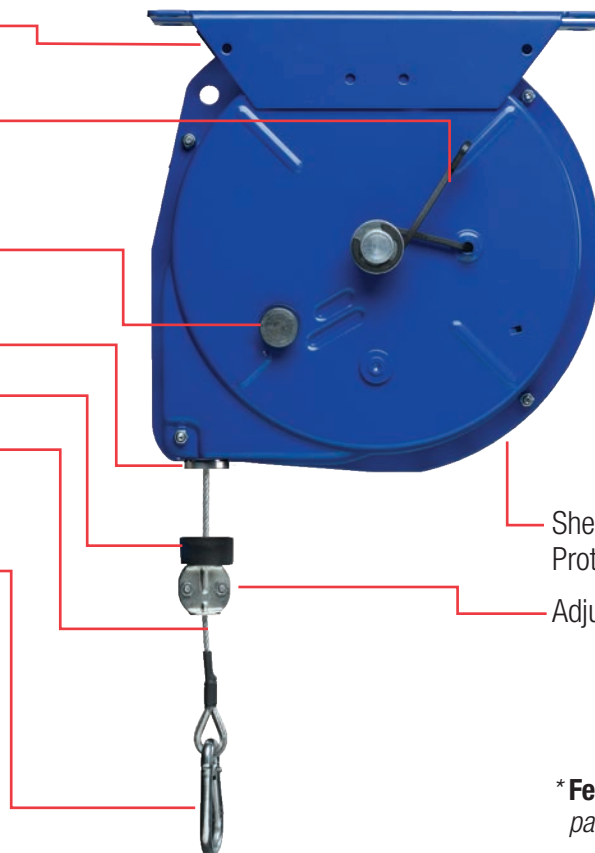
T - Hanging



TR - Horizontal



TR - Vertical



* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

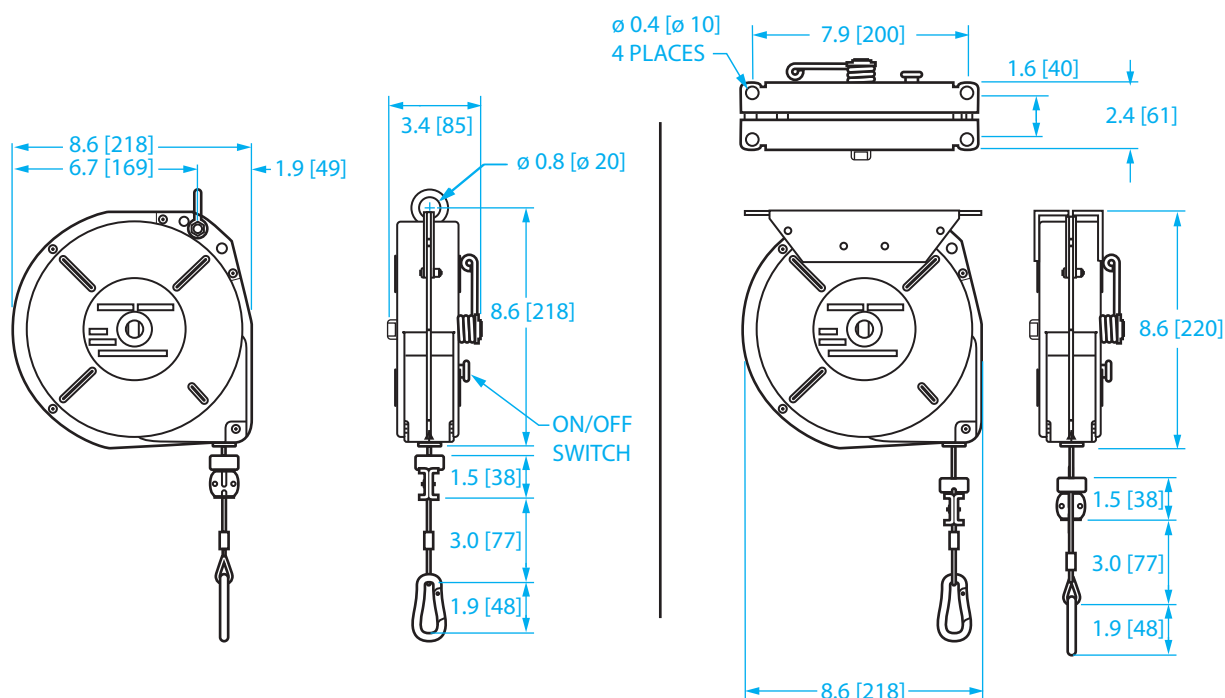
T and TR Series
Standard Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Weight Range (kg)	Weight Range (lb)	Active Cable Travel	Serviceable
0515T	130176-0002	2.3	5	4.5m (15.0')	Yes
1015T	130176-0003	4.5	10		
1515T	130176-0004	6.8	15		
1515TR	130176-0009	6.8	15		

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
0515T	165	7	286	11	300	12	4.1	9.0
1515T & 1515TR								

Specifications for reference only [±10%]. Subject to change without notice.

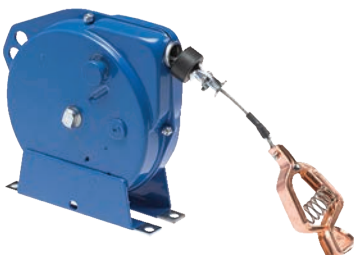


Static Discharge—Grounding Reels are reeling devices designed to provide a ground path for eliminating static build-up by means of cable and ground clamp. Adjustable light constant tension on the cable is provided by the Main Power Spring which in turn provides means for Automatic Cable Retrieval.

Units are also equipped with a Ratchet Lock for easy locking in place of cable at a desired position while a light tug on the cable will allow cable to automatically be retrieved into unit.



Aero-Motive® Static Discharge —Grounding Reels



APPLICATIONS

GENERAL INDUSTRIAL

GROUNDING APPLICATIONS

SERVICE TRUCKS

WELDING STATIONS

HAZARDOUS LIQUID TRAILERS

REFUELING TRUCKS

REFINERIES

CHEMICAL PLANTS

AIRPLANES

DOCKSIDE LOADING EQUIPMENT

molex®

1025 Series Standard Industrial Duty

Equipped with a 2.0 Ohm resistant, 100.0A ground clamp, Aero-Motive® Static Discharge Reels safely dissipate static electrical build-up and reduce the danger of sparking in hazardous areas such petrochemical plants, shipyards, etc. 1025 Static Discharge Reel while providing an overall resistance of Less than 2 Ohms, is compact in size and built sturdy to fit in most standard industrial duty applications.

Product Features*

Automatic Safety Lock: No

Manual Safety Lock: No

Installation: Rigid Mount—Vertical & Horizontal Mount

External Tension Adjustment: Shaft and Spring Friction Clutch

Ratchet Lock (ON/OFF): Yes

Resistance: Less than 2 Ohms

Serviceable: Yes with Aero-Motive Repair Parts or Kits

Sheet-Metal Housing
to Protect Spring and Drum

Rigid Mount: Vertical or Horizontal

External Tension Adjustment:
Friction Clutch—Easily Operated
(See service manual)

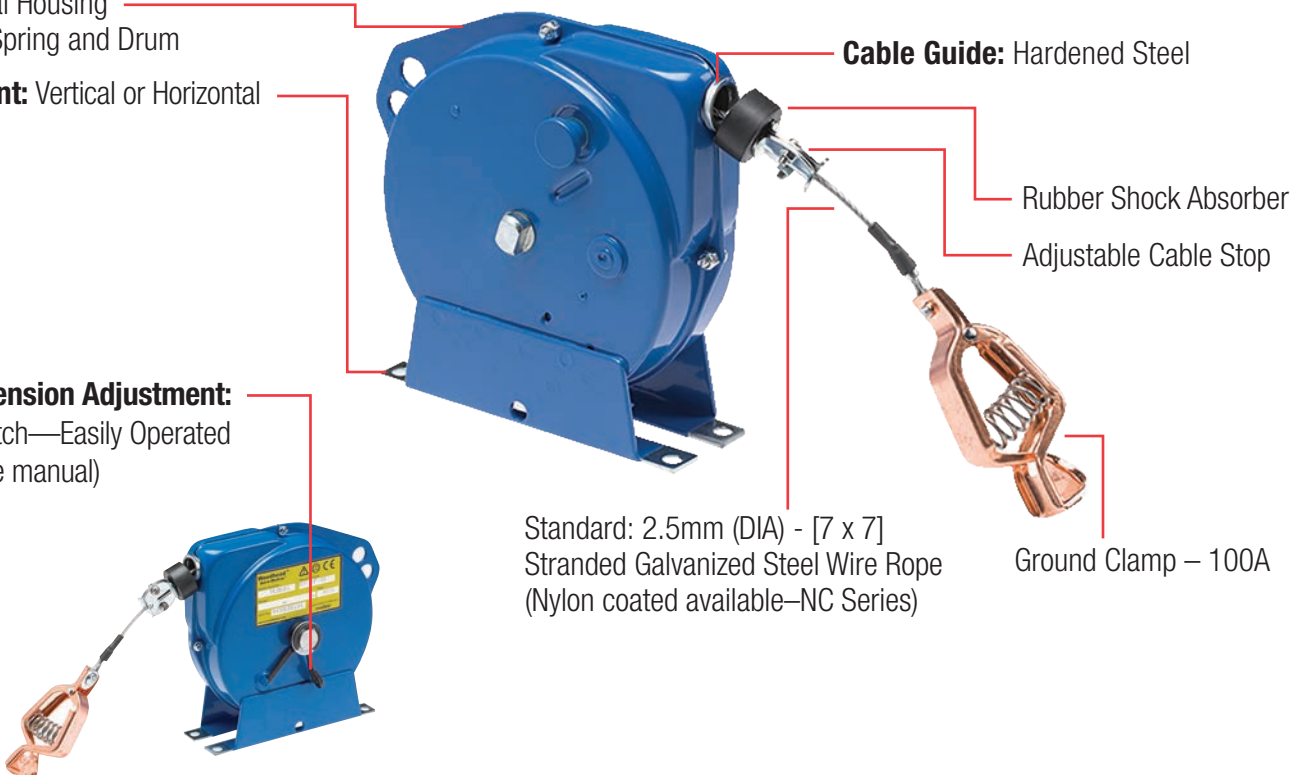
Cable Guide: Hardened Steel

Rubber Shock Absorber

Adjustable Cable Stop

Ground Clamp — 100A

Standard: 2.5mm (DIA) - [7 x 7]
Stranded Galvanized Steel Wire Rope
(Nylon coated available—NC Series)



* **Feature Identifiers** (in bold) defined on
pages 6 to 9.

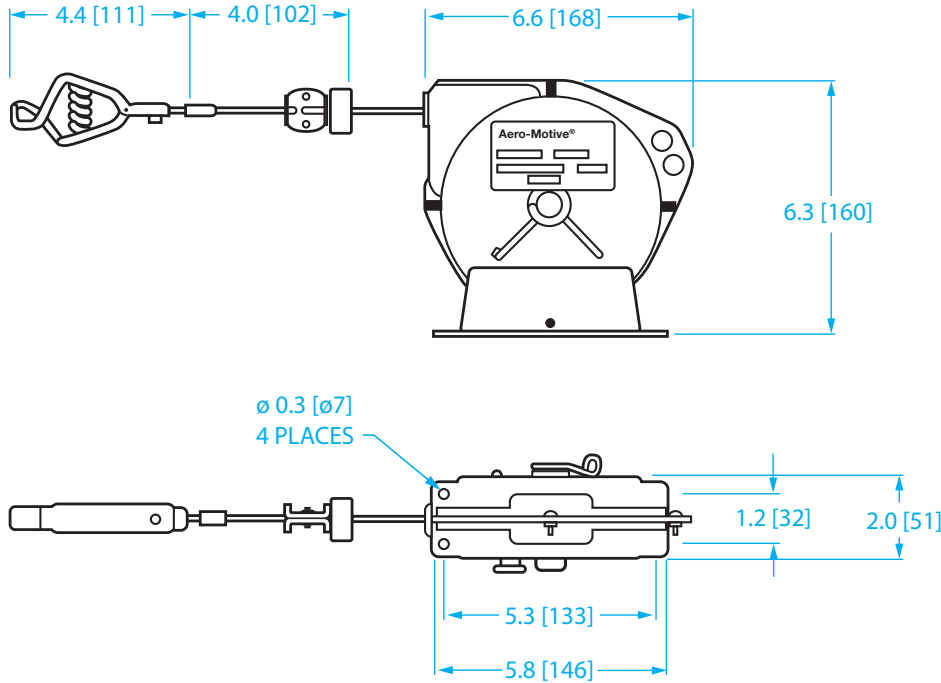
1025 Series
Standard Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Active Cable Travel	Serviceable
1025	130177-0015	7.5m (25')	Yes
1025NC	130177-0002		

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
1025 Series	140	6	203	8	262	10	2.5	6.0

Specifications for reference only [±10%]. Subject to change without notice.

2050 Series Standard Industrial Duty

Equipped with new power springs which provide long lasting life cycles and an automatic cable retrieval which can be set easily at desired speeds by means of external tension adjustment mechanism. 2050 Series come equipped with a single or dual ground clamps and cables are available in Nylon Coated Steel.

Product Features*

Automatic Safety Lock: No

Manual Safety Lock: No

Installation: Rigid Mount—Vertical and Horizontal Mount

Ratchet Lock (ON/OFF): Yes

Resistance: Less than 2 Ohms

External Tension Adjustment: Shaft and Spring Friction Clutch

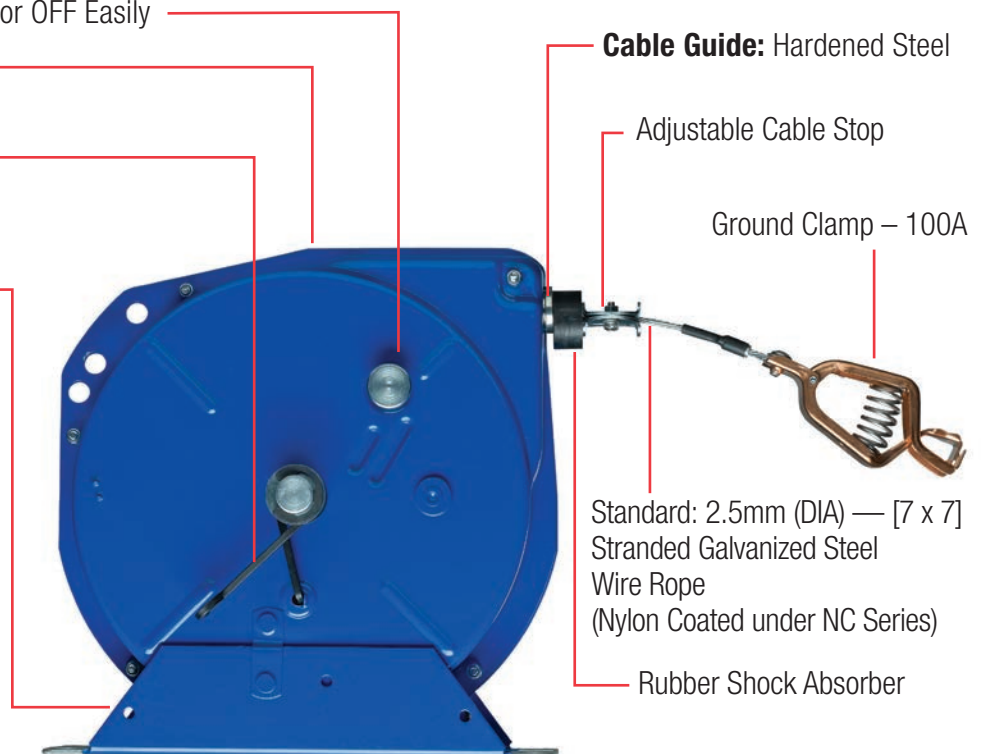
Serviceable: Yes with Aero-Motive Repair Parts or Kits

Ratchet Lock (ON/OFF): Turns ON or OFF Easily

Sheet-Metal Housing
to Protect Spring and Drum

External Tension Adjustment:
Friction Clutch—Easily Operated
(See service manual)

Rigid Mount Installation:
Vertical or Horizontal



* **Feature Identifiers** (in bold) defined on pages 6 to 9.

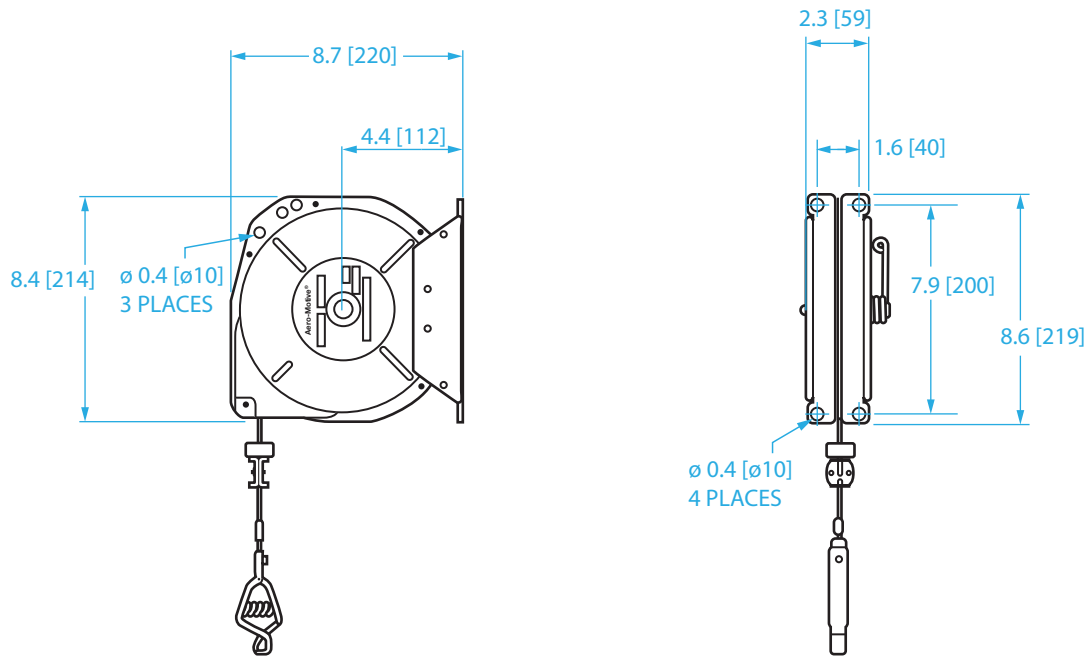
2050 Series
Standard Industrial Duty

Ordering Information

Aero-Motive Model	Standard Order No.	Active Cable Travel	Serviceable
2050	130177-0009	15.2m (50')	Yes
2050NC	130177-0011		
2050Y	130177-0013		

Unit Dimension Specification

(Dimensions are shown in inches and [millimeters] and are for reference only)



Unit Packaging Specification

Aero-Motive Model	Height		Width		Depth		Weight	
	mm	inches	mm	inches	mm	inches	kg	lb
2050 Series	165	7	286	11	300	12	4.1	9.0

Specifications for reference only [±10%]. Subject to change without notice.

**Get more insights at:
molex.com/aeromotive**