RELIABLE TOOL SUPPORT PRODUCTS FOR HARSH INDUSTRIAL ENVIRONMENTS

Positioners, Retractors, Balancers, Torque Reels, Static Discharge Reels
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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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
Aero-Motive®
Positioner

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.
**Ordering Information**

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM31</td>
<td>130169-0002</td>
<td>0.5 to 4.5</td>
<td>1.0 to 10.0</td>
<td>1.4m (4.7’)</td>
<td>No</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Unit</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
</tr>
<tr>
<td>GM31</td>
<td>51</td>
<td>2</td>
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Specifications for reference only [±10%]. Subject to change without notice.

**Unit Packaging Specification**

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM31</td>
<td>51</td>
<td>2</td>
<td>71</td>
<td>0.1</td>
</tr>
</tbody>
</table>

Specifications for reference only [±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
Aero-Motive®
Retractors

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.
# Aero-Motive® Retractors

## RB Series

*Ligh Industrial Duty*

## Ordering Information

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

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)

![Dimensions Diagram]

## Unit Packaging Specification

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
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<tbody>
<tr>
<td></td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>RB Series</td>
<td>65</td>
<td>3</td>
<td>115</td>
<td>5</td>
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</table>

Specifications for reference only [±10%]. Subject to change without notice.
Aero-Motive® Retractors

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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF6</td>
<td>130173-0055</td>
<td>1.8 to 2.7</td>
<td>4.0 to 6.0</td>
<td>2.0m (6.6’)</td>
<td>No</td>
</tr>
<tr>
<td>RF8</td>
<td>130173-0061</td>
<td>2.7 to 3.6</td>
<td>6.0 to 8.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RFL6</td>
<td>130173-0069</td>
<td>1.8 to 2.7</td>
<td>4.0 to 6.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RFL8</td>
<td>130173-0074</td>
<td>2.7 to 3.6</td>
<td>6.0 to 8.0</td>
<td></td>
<td></td>
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</table>

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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
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<td>RF Series</td>
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<td>140</td>
<td>6</td>
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<td>RFL Series</td>
<td>310</td>
<td>12</td>
<td>1.5</td>
<td>3.5</td>
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</tbody>
</table>

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

---

*Feature Identifiers* (in bold) defined on pages 6 to 9.
Aero-Motive® Retractors

5F and 5FLR Series
Standard Industrial Duty

Ordering Information

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
</tr>
</thead>
<tbody>
<tr>
<td>5F</td>
<td>130175-0014</td>
<td>0.4 to 2.3</td>
<td>1.0 to 5.0</td>
<td>2.4m (8.0')</td>
<td>Yes</td>
</tr>
<tr>
<td>5FLR</td>
<td>130175-0016</td>
<td>0.4 to 2.3</td>
<td>1.0 to 5.0</td>
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<td></td>
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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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
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<td>mm</td>
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<td>6</td>
<td>203</td>
<td>8</td>
</tr>
<tr>
<td>5FLR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specifications for reference only [±10%]. Subject to change without notice.
Aero-Motive® Retractors

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.*
Aero-Motive® Retractors

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

Ordering Information

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
</tr>
</thead>
<tbody>
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<td>10F</td>
<td>130175-0001</td>
<td>1.8 to 4.5</td>
<td>4.0 to 10.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22F</td>
<td>130175-0011</td>
<td>3.6 to 10.0</td>
<td>8.0 to 22.0</td>
<td>2.4m (8.0’)</td>
<td>Yes</td>
</tr>
<tr>
<td>10FLR</td>
<td>130175-0003</td>
<td>1.8 to 4.5</td>
<td>4.0 to 10.0</td>
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<td></td>
</tr>
<tr>
<td>22FLR</td>
<td>130175-0012</td>
<td>3.6 to 10.0</td>
<td>8.0 to 22.0</td>
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</table>

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Unit Dimension Specification
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Unit Packaging Specification

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
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<tbody>
<tr>
<td></td>
<td>mm</td>
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<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>10F &amp; 10FLR</td>
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<td>7</td>
<td>286</td>
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<td>22F &amp; 22FLR</td>
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</tbody>
</table>

Specifications for reference only [±10%]. Subject to change without notice.
Aero-Motive®
Retractors

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

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

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

<table>
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<th>Aero-Motive Model</th>
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<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
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<tbody>
<tr>
<td>10FLS</td>
<td>130175-0062</td>
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<td>4.0 to 10.0</td>
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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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
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<th>Depth</th>
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<td>mm</td>
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<td>10FLS &amp; 10FLSR</td>
<td>165</td>
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</tbody>
</table>

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

*Feature Identifiers (in bold) defined on pages 6 to 9.
Aero-Motive®
Retractors

FLRC Series
Heavy Industrial Duty

Ordering Information

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
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<tbody>
<tr>
<td>5FLRC</td>
<td>130174-0014</td>
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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

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<td>22FLRC</td>
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</table>

Specifications for reference only [±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
Aero-Motive®
Balancers

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**

*Feature Identifiers (in bold) defined on pages 6 to 9.*
Aero-Motive®
Balancers

AB and ABRL Series
Light Industrial Duty

Ordering Information

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
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<tr>
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Unit Dimension Specification

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

Unit Packaging Specification

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<th>Aero-Motive Model</th>
<th>Height</th>
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</table>

Specifications for reference only [±10%]. Subject to change without notice.
Aero-Motive®
Balancers

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.
### Aero-Motive®

**Balancers**

**BF and BFL Series**

**Light Industrial Duty**

### Ordering Information

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
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<tbody>
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### Unit Dimension Specification

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

### Unit Packaging Specification

<table>
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<tr>
<th>Aero-Motive Model</th>
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</tbody>
</table>

Specifications for reference only [±10%]. Subject to change without notice.
Aero-Motive®
Balancers

*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.
## Ordering Information

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
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<tbody>
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### Unit Dimension Specification

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

![Unit Dimensions](image)

### Unit Packaging Specification

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
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</tbody>
</table>

Specifications for reference only [±10%]. Subject to change without notice.
Aero-Motive®
Balancers

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
- **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
- 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
- **Manual Safety Lock:** “Push/Pull” Lever
- **External Tension Adjustment:** Worm Gear Vertical

*Feature Identifiers (in bold) defined on pages 6 to 9.*
Aero-Motive® Balancers

EA Series
Heavy Industrial Duty

Ordering Information

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
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Unit Dimension Specification
(Dimensions are shown in inches and [millimeters] and are for reference only)

Unit Packaging Specification

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<th>Aero-Motive Model</th>
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</table>

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

*Feature Identifiers* (in bold) defined on pages 6 to 9.
Aero-Motive® Balancers

EL Series
Heavy Industrial Duty

Ordering Information

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
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<th>Weight Range (lb)</th>
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<td>11.8 to 18.0</td>
<td>26.0 to 40.0</td>
<td>1.8m (6.0’)</td>
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<tr>
<td>50EL</td>
<td>130172-0197</td>
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<tr>
<td>60EL</td>
<td>130172-0208</td>
<td>23.0 to 28.0</td>
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Unit Dimension Specification
(Dimensions are shown in inches and [millimeters] and are for reference only)

Unit Packaging Specification

<table>
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<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
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<td></td>
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<tr>
<td>EL Series</td>
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<td>203</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
</tr>
</thead>
<tbody>
<tr>
<td>20JA</td>
<td>130172-0106</td>
<td>6.0 to 11.0</td>
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<td>80JA</td>
<td>130172-0241</td>
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<td>130172-0015</td>
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Unit Dimension Specification
(Dimensions are shown in inches and [millimeters] and are for reference only)

Unit Packaging Specification

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<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
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<tbody>
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<td>kg</td>
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<td></td>
<td></td>
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</table>

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

- 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**

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
</tr>
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<td>130172-0768</td>
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<td>130172-0769</td>
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<td>40 to 55</td>
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<tr>
<td>60JA-RL</td>
<td>130172-0771</td>
<td>25.0 to 30.0</td>
<td>55 to 65</td>
<td>2.1m (7.0&quot;)</td>
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<td>70JA-RL</td>
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<td>80JA-RL</td>
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<td>100JA-RL</td>
<td>130172-0640</td>
<td>40.0 to 45.0</td>
<td>88 to 100</td>
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</table>

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**

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
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<td>15</td>
<td>340</td>
<td>13</td>
</tr>
</tbody>
</table>

Specifications for reference only (±10%). Subject to change without notice.
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**

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
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<th>Serviceable</th>
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<tbody>
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<td>40JA-CA</td>
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<td>70JA-CA</td>
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<td>80JA-CA</td>
<td>130172-0765</td>
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<td>68 to 86</td>
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<tr>
<td>90JA-CA</td>
<td>130172-0766</td>
<td>36.0 to 41.0</td>
<td>79 to 90</td>
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<tr>
<td>100JA-CA</td>
<td>130172-0767</td>
<td>40.0 to 45.0</td>
<td>88 to 100</td>
<td>2.1m (7.0')</td>
<td>Yes</td>
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</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>JA-CA Series</td>
<td>380</td>
<td>15</td>
<td>340</td>
<td>13</td>
</tr>
</tbody>
</table>

Specifications for reference only (±10%). Subject to change without notice.
KA balancers, equipped with two power springs, are the workhorses 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.

- **External Tension Adjustment**: Worm Gear Vertical
- **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

*Feature Identifiers (in bold) defined on pages 6 to 9.*
Aero-Motive®
Balancers

KA Series
Heavy Industrial Duty

Ordering Information

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Travel (m)</th>
<th>Weight Range (lb)</th>
<th>Travel (ft)</th>
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<tbody>
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<td>130172-0875</td>
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<td>7.0</td>
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<td>130172-0785</td>
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<td>2.1</td>
<td>115 to 125</td>
<td>7.0</td>
</tr>
<tr>
<td>145KA</td>
<td>130172-0786</td>
<td>56 to 66</td>
<td>2.1</td>
<td>124 to 145</td>
<td>7.0</td>
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<tr>
<td>165KA</td>
<td>130172-0787</td>
<td>65 to 75</td>
<td>2.1</td>
<td>143 to 165</td>
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<tr>
<td>175KA</td>
<td>130172-0788</td>
<td>72 to 79</td>
<td>2.1</td>
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<td>130172-0098</td>
<td>79 to 91</td>
<td>2.1</td>
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<td>7.0</td>
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<td>220KA</td>
<td>130172-0116</td>
<td>90 to 100</td>
<td>2.1</td>
<td>200 to 220</td>
<td>7.0</td>
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<tr>
<td>240KA</td>
<td>130172-0124</td>
<td>100 to 110</td>
<td>2.1</td>
<td>220 to 240</td>
<td>7.0</td>
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Unit Dimension Specification

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

Unit Packaging Specification

<table>
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<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
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<td>15</td>
<td>340</td>
<td>13</td>
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</table>

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

- 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**

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Travel (m)</th>
<th>Weight Range (lb)</th>
<th>Travel (ft)</th>
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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**

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
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<td>KA-RL Series</td>
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<td>340</td>
<td>13</td>
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</tbody>
</table>

Specifications for reference only [±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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Travel (m)</th>
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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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height (mm)</th>
<th>Height (inches)</th>
<th>Width (mm)</th>
<th>Width (inches)</th>
<th>Depth (mm)</th>
<th>Depth (inches)</th>
<th>Weight (kg)</th>
<th>Weight (lb)</th>
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<tbody>
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<td>13</td>
<td>490</td>
<td>19</td>
<td>32.0</td>
<td>70.0</td>
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</tbody>
</table>

Specifications for reference only [±10%]. Subject to change without notice.
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\(^\circ\) 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: 3.0mm (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.
Aero-Motive®
Balancers

LA Series
Heavy Industrial Duty

Ordering Information

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

Unit Dimension Specification

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

Unit Packaging Specification

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA Series</td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td></td>
<td>431</td>
<td>17</td>
<td>420</td>
<td>17</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
</tr>
</thead>
<tbody>
<tr>
<td>210LA-CA</td>
<td>130172-0775</td>
<td>79.0 to 95.0</td>
<td>174 to 210</td>
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<tr>
<td>230LA-CA</td>
<td>130172-0776</td>
<td>95.0 to 107.0</td>
<td>209 to 236</td>
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<tr>
<td>250LA-CA</td>
<td>130172-0777</td>
<td>106.0 to 113.0</td>
<td>234 to 250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>260LA-CA</td>
<td>130172-0778</td>
<td>113.0 to 120.0</td>
<td>249 to 265</td>
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<td></td>
</tr>
<tr>
<td>280LA-CA</td>
<td>130172-0779</td>
<td>120.0 to 127.0</td>
<td>265 to 280</td>
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<td></td>
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<tr>
<td>290LA-CA</td>
<td>130172-0780</td>
<td>127.0 to 132.0</td>
<td>280 to 291</td>
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<tr>
<td>300LA-CA</td>
<td>130172-0781</td>
<td>131.0 to 136.0</td>
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<td>330LAS-CA</td>
<td>130172-0782</td>
<td>136.0 to 150.0</td>
<td>300 to 331</td>
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<tr>
<td>370LAS-CA</td>
<td>130172-0784</td>
<td>163.0 to 168.0</td>
<td>350 to 370</td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>inches</td>
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<tr>
<td>LA-CA Series</td>
<td>431</td>
<td>17</td>
<td>420</td>
<td>17</td>
</tr>
</tbody>
</table>

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
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**

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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Weight Range (kg)</th>
<th>Weight Range (lb)</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
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<tbody>
<tr>
<td>0515T</td>
<td>130176-0002</td>
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<td>130176-0004</td>
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<td>130176-0009</td>
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<td>15</td>
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<td></td>
</tr>
</tbody>
</table>

## Unit Dimension Specification

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

![Dimension Diagram]

## Unit Packaging Specification

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>kg</td>
</tr>
<tr>
<td>0515T</td>
<td>165</td>
<td>7</td>
<td>286</td>
<td>300</td>
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<td>1515T &amp; 1515TR</td>
<td>165</td>
<td>7</td>
<td>300</td>
<td>12</td>
</tr>
</tbody>
</table>

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
Grounding Reels

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 as 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  
- **Cable Guide:** Hardened Steel  
- Rubber Shock Absorber  
- Adjustable Cable Stop  
- Rigid Mount: Vertical or Horizontal  
- Standard: 2.5mm (DIA) - [7 x 7] Stranded Galvanized Steel Wire Rope (Nylon coated available—NC Series)  
- Ground Clamp – 100A

*Feature Identifiers (in bold) defined on pages 6 to 9.*
Aero-Motive®
Grounding Reels

1025 Series
Standard Industrial Duty

Ordering Information

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1025</td>
<td>130177-0015</td>
<td>7.5m (25’)</td>
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</tr>
<tr>
<td>1025NC</td>
<td>130177-0002</td>
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</tbody>
</table>

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

Unit Packaging Specification

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
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<tr>
<td>1025 Series</td>
<td>140</td>
<td>6</td>
<td>203</td>
<td>8</td>
</tr>
</tbody>
</table>

Specifications for reference only [±10%]. Subject to change without notice.
Aero-Motive®
Grounding Reels

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

Cable Guide: Hardened Steel
Adjustable Cable Stop
Ground Clamp – 100A
Standard: 2.5mm (DIA) — [7 x 7]
Stranded Galvanized Steel
Wire Rope
(Nylon Coated under NC Series)
Rubber Shock Absorber

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

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Standard Order No.</th>
<th>Active Cable Travel</th>
<th>Serviceable</th>
</tr>
</thead>
<tbody>
<tr>
<td>2050</td>
<td>130177-0009</td>
<td>15.2m (50')</td>
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<td>130177-0011</td>
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<td>2050Y</td>
<td>130177-0013</td>
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</table>

**Unit Dimension Specification**

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

![Diagram of unit dimensions]

**Unit Packaging Specification**

<table>
<thead>
<tr>
<th>Aero-Motive Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>2050 Series</td>
<td>165</td>
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<td>286</td>
<td>11</td>
</tr>
</tbody>
</table>

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