

Aero-Motive®

# balancers and tool support



Includes  
**Positioners**  
**Retractors**  
**Balancers**  
**Torque Reels**  
**Workstation Assemblies**  
**Accessories**



**W** | Woodhead

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# Aero-Motive® Balancers Enhance Productivity

It's a simple fact. Make a job easier to do, and you can do it better, faster, longer. Balancers and tool support systems by Woodhead improve the productivity of light assembly, packaging, and many other shop floor workers by keeping their tools out of the way when not needed. With balancers, workstations can be organized more efficiently by ensuring that tools are always in the right place. Expensive power tools suspended from balancers are safeguarded from being accidentally dropped onto the floor or onto other expensive products or equipment.

## Selection Guide

When selecting a balancer, be sure that all items to be supported are considered: tools, drill bits, sockets, hoses, cable, etc. This Selection Guide is to be used only as a reference for non-ratchet lock devices. See the main pages for ratchet balancer specs. Actual selection depends on weight to be balanced and cable travel required.

## Page Guide

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Always use a secondary support on overhead-mounted balancers to prevent the possibility of the balancer accidentally falling. See page 15 to select a secondary support chain.

## Tool Positioner

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| GM31  | 0.5 - 5.4         | 1.4        | 1.0 - 10.0        | 4.7         |

## Retractors

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| RB2   | 0.5 - 0.9         | 2.0        | 1.0 - 2.0         | 6.6         |
| RB4   | 0.9 - 1.8         | 2.0        | 2.0 - 4.0         | 6.6         |
| RF6   | 1.8 - 2.7         | 2.0        | 4.0 - 6.0         | 6.6         |
| RF8   | 2.7 - 3.6         | 2.0        | 6.0 - 8.0         | 6.6         |
| 5F    | 0.4 - 2.3         | 2.4        | 1.0 - 5.0         | 8.0         |
| 10F   | 1.8 - 4.5         | 2.4        | 4.0 - 10.0        | 8.0         |
| 15F   | 3.6 - 6.8         | 2.4        | 8.0 - 15.0        | 8.0         |
| 22F   | 7.3 - 10.0        | 2.4        | 16.0 - 22.0       | 8.0         |

## Balancers

| model   | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|---------|-------------------|------------|-------------------|-------------|
| BF6     | 1.4 - 2.7         | 2.0        | 3.0 - 6.0         | 6.6         |
| BF9     | 2.7 - 4.1         | 2.0        | 6.0 - 9.0         | 6.6         |
| BF13    | 4.1 - 5.9         | 2.0        | 9.0 - 13.0        | 6.6         |
| BF18    | 5.9 - 8.2         | 2.0        | 13.0 - 18.0       | 6.6         |
| BF24    | 8.2 - 10.9        | 2.0        | 18.0 - 24.0       | 6.6         |
| EB25000 | 8.2 - 11.4        | 2.0        | 18.0 - 25.0       | 6.6         |
| EB35000 | 11.4 - 15.9       | 2.0        | 25.0 - 35.0       | 6.6         |
| EB45000 | 15.9 - 20.5       | 2.0        | 35.0 - 45.0       | 6.6         |
| EB48S00 | 15.9 - 21.8       | 1.5        | 35.0 - 48.0       | 4.9         |
| EB60S00 | 20.5 - 27.3       | 1.5        | 45.0 - 60.0       | 4.9         |
| 10EA    | 2.3 - 5.0         | 1.8        | 5.0 - 11.0        | 6.0         |
| 20EA    | 5.0 - 9.0         | 1.8        | 11.0 - 20.0       | 6.0         |
| 30EA    | 9.0 - 14.0        | 1.8        | 20.0 - 31.0       | 6.0         |
| 40EA    | 13.0 - 18.0       | 1.8        | 29.0 - 40.0       | 6.0         |
| 20JA    | 6.0 - 11.0        | 2.1        | 13.0 - 25.0       | 7.0         |
| 30JA    | 11.0 - 16.0       | 2.1        | 24.0 - 35.0       | 7.0         |
| 40JA    | 13.0 - 20.0       | 2.1        | 29.0 - 45.0       | 7.0         |
| 50JA    | 18.0 - 25.0       | 2.1        | 40.0 - 55.0       | 7.0         |
| 70JA    | 24.0 - 32.0       | 2.1        | 53.0 - 70.0       | 7.0         |
| 80JA    | 31.0 - 39.0       | 2.1        | 68.0 - 86.0       | 7.0         |
| 90JA    | 36.0 - 41.0       | 2.1        | 79.0 - 90.0       | 7.0         |
| 100JA   | 40.0 - 45.0       | 2.1        | 88.0 - 100.0      | 7.0         |
| 110KA   | 38.0 - 52.0       | 2.1        | 84.0 - 115.0      | 7.0         |
| 120KA   | 52.0 - 57.0       | 2.1        | 115.0 - 126.0     | 7.0         |
| 134KA   | 56.0 - 66.0       | 2.1        | 124.0 - 146.0     | 7.0         |
| 156KA   | 65.0 - 75.0       | 2.1        | 143.0 - 165.0     | 7.0         |
| 170KA   | 72.0 - 79.0       | 2.1        | 159.0 - 175.0     | 7.0         |
| 192KA   | 79.0 - 91.0       | 2.1        | 174.0 - 200.0     | 7.0         |
| 220KA   | 91.0 - 100.0      | 1.8        | 200.0 - 221.0     | 6.0         |
| 240KA   | 100.0 - 110.0     | 1.8        | 221.0 - 243.0     | 6.0         |
| 210LA   | 79.0 - 95.0       | 2.1        | 174.0 - 210.0     | 7.0         |
| 230LA   | 95.0 - 107.0      | 2.1        | 209.0 - 236.0     | 7.0         |
| 250LA   | 106.0 - 113.0     | 2.1        | 234.0 - 250.0     | 7.0         |
| 260LA   | 113.0 - 120.0     | 2.1        | 249.0 - 265.0     | 7.0         |
| 280LA   | 120.0 - 127.0     | 2.1        | 265.0 - 280.0     | 7.0         |
| 290LA   | 127.0 - 132.0     | 2.1        | 280.0 - 291.0     | 7.0         |
| 300LA   | 131.0 - 136.0     | 2.1        | 289.0 - 300.0     | 7.0         |
| 330LA   | 136.0 - 150.0     | 1.5        | 300.0 - 331.0     | 5.0         |
| 350LA   | 150.0 - 159.0     | 1.5        | 330.0 - 350.0     | 5.0         |
| 370LA   | 163.0 - 168.0     | 1.5        | 350.0 - 370.0     | 5.0         |

## Positioner

- Supports weight mid-stroke
- Must lift tool to upper position
- Support up to 4.5 kg/10 lb

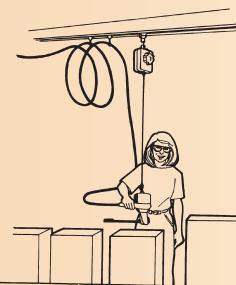
Positioners use an adjustable friction brake to support the weight of the suspended tool or object. The object can be placed in any position within the cable travel range and it will remain in that position. The object can be moved downward with very little effort, depending on the adjustment; however, the full weight of the object must be lifted to move it upward.



## *Retractors*

- Retracts tools to upper position
- Light force to hold mid-stroke
- Retract up to 10 kg/22 lb

Retractors are designed to retract the cable when no force is applied. An amount of downward force must be continually applied to keep the suspended object at its extended position. The torque output of the rewind spring increases as the cable is extended, retracting the suspended object to the uppermost adjusted position when released.



## Balancers

- Balances tool in any position
- Very little effort to move tool
- Balance up to 168 kg/370 lb

Balancers allow the worker to move the suspended tool or object up or down with very little effort. Depending on the spring adjustment, object will remain in position or retract when no force is applied. With a spiral groove on a tapered drum, the winding radius is increased to match the torque buildup of the spring, thus neutralizing it and achieving a balance condition.

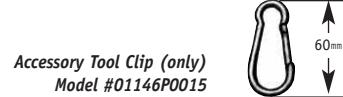


# POSITIONER

|               |                        |
|---------------|------------------------|
| GM            | 0.5 - 4.5 kg           |
| 1.0 - 10.0 lb | <b>TOOL POSITIONER</b> |



- Holds an object in desired position within travel range without use of a ratchet or locking device
- Easy downward tool mobility
- Simple upward repositioning of load, requiring only a force equal to the weight of the suspended object
- Minimizes operator fatigue in repetitive-motion applications with light loads
- Easy tension adjustment by placing screwdriver or coin into slot of shaft.
- For light duty use



## Tool Positioner

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| GM31  | 0.5 - 4.5         | 1.4        | 1.0 - 10.0        | 4.7         |

See page 24 for dimensions

# RETRACTORS

**RB**

0.5 - 1.8 kg

1.0 - 4.0 lb

## RETRACTORS

- Heavy-duty, long-life spring for lasting performance
- Easy tension adjustment with no tools required
- Full range of motion with 360° swivel hanger
- Quick installation
- Durable nylon cord for long life and reduced maintenance
- Convenient snap-type tool clip for easy tool handling
- Alignment of hanger and tool hook for smooth, efficient use

See page 24 for dimensions



### *RB Retractors*

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| RB2   | 0.0 - 0.9         | 2.0        | 0.0 - 2.0         | 6.6         |
| RB4   | 0.9 - 1.8         | 2.0        | 2.0 - 4.0         | 6.6         |
| RB210 | 0.5 - 0.9         | 2.54       | 1.0 - 2.0         | 10.0        |

**RF**

1.8 - 3.6 kg

4.0 - 8.0 lb

## RETRACTORS

- Heavy-duty, long-life spring for lasting performance
- Easy tension adjustment with no tools required
- 360° forged steel swivel hanger for full range of motion
- Quick installation
- Durable nylon-covered steel cable for consistent service & easy maintenance
- Alignment of hanger and tool hook for smooth, efficient use
- Simplified tool attachment and removal with convenient snap-type tool clip
- Ratchet lock available (RFL models) for free movement when required



### *RF Retractors*

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| RF6   | 1.8 - 2.7         | 2.0        | 4.0 - 6.0         | 6.6         |
| RF8   | 2.7 - 3.6         | 2.0        | 6.0 - 8.0         | 6.6         |

### *RFL Retractors* with Ratchet Locks

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| RFL6  | 1.8 - 2.7         | 2.0        | 4.0 - 6.0         | 6.6         |
| RFL8  | 2.7 - 3.6         | 2.0        | 6.0 - 8.0         | 6.6         |

See page 24 for dimensions

# RETRACTORS

|                                 |               |
|---------------------------------|---------------|
| <b>F</b>                        | 0.4 - 10.0 kg |
| 1.0 - 22.0 lb <b>RETRACTORS</b> |               |

- Easy tension adjustment with no special tools required
- Heavy-duty steel construction for long life
- Long-lasting mainspring designed to minimize spring flexing and fatigue
- Tool can be set at desired position with adjustable cable stop
- Durable  $\frac{3}{32}$ "-diameter stranded steel aircraft cable
- Ratchet lock (on FLR models) locks out retraction tension for unrestricted tool movement (ON/OFF switchable)

*F* Retractors

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| 5F    | 0.4 - 2.3         | 2.4        | 1.0 - 5.0         | 8.0         |
| 10F   | 1.8 - 4.5         | 2.4        | 4.0 - 10.0        | 8.0         |
| 15F   | 3.6 - 6.8         | 2.4        | 8.0 - 15.0        | 8.0         |
| 22F   | 7.3 - 10.0        | 2.4        | 16.0 - 22.0       | 8.0         |

*FLR* Retractors with Ratchet Locks

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| 5FLR  | 0.4 - 2.3         | 2.4        | 1.0 - 5.0         | 8.0         |
| 10FLR | 1.8 - 4.5         | 2.4        | 4.0 - 10.0        | 8.0         |
| 15FLR | 3.6 - 6.8         | 2.4        | 8.0 - 15.0        | 8.0         |
| 22FLR | 7.3 - 10.0        | 2.4        | 16.0 - 22.0       | 8.0         |

5F Retractor



See page 24 for dimensions

|  |               |
|--|---------------|
| <b>FLRC</b>                                  | 0.8 - 10.0 kg |
| 2.0 - 22.0 lb <b>CAST ALUMINUM RETRACTOR</b> |               |



See page 25 for dimensions

- Durable heavy-walled cast aluminum housing ensures long life
- Recessed tension adjustment knobs minimize damage from rough use
- 360° swivel design maintains balancer and tool alignment and minimizes wear
- Forged-steel mounting shackle ensures safe operation
- Standard ratchet lock allows cable locking at desired position and can be turned off if desired
- $\frac{3}{32}$ " diameter stranded galvanized steel cable

*FLRC* Retractor with Ratchet Locks

| model  | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|--------|-------------------|------------|-------------------|-------------|
| 5FLRC  | 0.8 - 3.2         | 2.4        | 2.0 - 7.0         | 8.0         |
| 10FLRC | 1.8 - 4.5         | 2.4        | 4.0 - 10.0        | 8.0         |
| 15FLRC | 3.6 - 6.8         | 2.4        | 8.0 - 15.0        | 8.0         |
| 22FLRC | 7.3 - 10.0        | 2.4        | 16.0 - 22.0       | 8.0         |

# Make tools virtually weightless for faster, safer production

Aero-Motive® balancers suspend tools where they are easy to reach and use. They allow workers to move faster with less risk of fatigue and repetitive motion stress. They also help prevent tools from being misplaced or damaged.

**True precision for optimum productivity** Many balancers on the market promise “zero gravity” but deliver only within a narrow segment of their range. TrueBalancers always live up to their name. That is why we offer hundreds of choices ranging from 1.4 to 168 kg (3 to 370 lb) capacity. Advances such as high-impact housings, spiral-grooved tapered drums, manual drum locks and replaceable spring assemblies, ensure long-term performance and value.

**Safer & easier to use** Redundant safety features are built into every balancer. Simple tension adjustment and easy cable replacement also help make Aero-Motive balancers from Woodhead leaders in safety and convenience.



# BALANCERS

|               |                  |
|---------------|------------------|
| <b>BF</b>     | 1.4 - 10.9 kg    |
| 3.0 - 24.0 lb | <b>BALANCERS</b> |

- Heavy-duty, long-life spring for lasting performance
- Automatic lock prevents load from falling if spring loses tension
- Snap-type tool clip for simplified attachment and removal
- Forged steel 360° swivel hanger
- High-impact composite housing for extra durability
- Ratchet lock (on BFL models) holds cable at desired position
- Shackle design instead of hook and spring clip provides extra-secure mounting
- 3/32" diameter stranded galvanized steel cable

## *BF Balancers*

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| BF6   | 1.4 - 2.7         | 2.0        | 3.0 - 6.0         | 6.6         |
| BF9   | 2.7 - 4.1         | 2.0        | 6.0 - 9.0         | 6.6         |
| BF13  | 4.1 - 5.9         | 2.0        | 9.0 - 13.0        | 6.6         |
| BF18  | 5.9 - 8.2         | 2.0        | 13.0 - 18.0       | 6.6         |
| BF24  | 8.2 - 10.9        | 2.0        | 18.0 - 24.0       | 6.6         |

## *BFL Balancers* with Ratchet Locks

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| BFL6  | 1.4 - 2.7         | 2.0        | 3.0 - 6.0         | 6.6         |
| BFL9  | 2.7 - 4.1         | 2.0        | 6.0 - 9.0         | 6.6         |
| BFL13 | 4.1 - 5.9         | 2.0        | 9.0 - 13.0        | 6.6         |
| BFL18 | 5.9 - 8.2         | 2.0        | 13.0 - 18.0       | 6.6         |
| BFL24 | 8.2 - 10.9        | 2.0        | 18.0 - 24.0       | 6.6         |



See page 25 for dimensions

# BALANCERS

**EB**

8.2 - 27.3 kg

18.0 - 60.0 lb

**BALANCERS**



See pages 15-16 for options

See page 25 for dimensions

- Cast aluminum construction
- Containerized mainspring for safe, easy spring handling
- Automatic drum lock secures load even if tension drops suddenly
- Manual drum lock for easy tool replacement
- Full range of motion with 360° swivel hanger
- Easy external adjustment with no special tools
- Swaged steel cable assembly
- Easy cable replacement without disassembly
- Extra-secure mounting with a shackle design, as opposed to hook and spring clip, which can disengage on impact
- Ratchet lock version (EB/R) holds cable at desired position
- Locking gate hook option available
- 1/8" diameter stranded galvanized steel cable

#### *EB Balancers*

| model   | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|---------|-------------------|------------|-------------------|-------------|
| EB25000 | 8.2 – 11.4        | 2.0        | 18.0 – 25.0       | 6.6         |
| EB35000 | 11.4 – 15.9       | 2.0        | 25.0 – 35.0       | 6.6         |
| EB45000 | 15.9 – 20.5       | 2.0        | 35.0 – 45.0       | 6.6         |
| EB48S00 | 15.9 – 21.8       | 1.5        | 35.0 – 48.0       | 4.9         |
| EB60S00 | 20.5 – 27.3       | 1.5        | 45.0 – 60.0       | 4.9         |

#### *EB/R Balancers* with Ratchet Locks

| model   | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|---------|-------------------|------------|-------------------|-------------|
| EB2500R | 8.2 – 11.4        | 2.0        | 18.0 – 25.0       | 6.6         |
| EB3500R | 11.4 – 15.9       | 2.0        | 25.0 – 35.0       | 6.6         |
| EB4500R | 15.9 – 20.5       | 2.0        | 35.0 – 45.0       | 6.6         |
| EB48S0R | 15.9 – 21.8       | 1.5        | 35.0 – 48.0       | 4.9         |
| EB60S0R | 20.5 – 27.3       | 1.5        | 45.0 – 60.0       | 4.9         |

# BALANCERS

|               |                  |
|---------------|------------------|
| <b>EA</b>     | 2.3 - 28.0 kg    |
| 5.0 - 62.0 lb | <b>BALANCERS</b> |

- Tapered drum minimizes tension buildup
- Wear-Guard® coated drum protects cable
- Automatic drum lock secures load even if tension drops
- 1/8" diameter stranded galvanized steel cable

- Manual drum lock for easy tool replacement
- Containerized mainspring for safe, easy spring handling
- Declutching hub prevents spring damage



*EA Balancers* with heavy cast aluminum housing and cover

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| 10EA  | 2.3 - 5.0         | 1.8        | 5.0 - 11.0        | 6.0         |
| 20EA  | 5.0 - 9.0         | 1.8        | 11.0 - 20.0       | 6.0         |
| 30EA  | 9.0 - 14.0        | 1.8        | 20.0 - 31.0       | 6.0         |
| 40EA  | 13.0 - 18.0       | 1.8        | 29.0 - 40.0       | 6.0         |
| 50EA  | 18.0 - 23.0       | 1.8        | 40.0 - 51.0       | 6.0         |
| 60EA  | 23.0 - 28.0       | 1.8        | 51.0 - 62.0       | 6.0         |

See pages 15-16 for options

See page 26 for dimensions

|                |                  |
|----------------|------------------|
| <b>EL</b>      | 5.0 - 18.1 kg    |
| 11.0 - 40.0 lb | <b>BALANCERS</b> |



See pages 15-16 for options  
See page 26 for dimensions

- Cast aluminum housing and cover provide added strength
- Tapered drum minimizes tension buildup
- Wear-Guard coated drum protects cable
- Automatic drum lock secures load even if tension drops
- Manual drum lock for easy tool replacement
- Containerized mainspring for safe, easy spring handling
- Declutching hub prevents spring damage
- Standard ratchet lock
- 1/8" diameter stranded galvanized steel cable
- On/Off switchable ratchet lock

*EL Balancers* with Ratchet Locks

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| 25EL  | 5.0 - 11.3        | 1.8        | 11.0 - 25.0       | 6.0         |
| 40EL  | 11.8 - 18.1       | 1.8        | 26.0 - 40.0       | 6.0         |

# BALANCERS

**JA**

4.0 - 45.0 kg

10.0 - 100.0 lb **BALANCERS**

- Wear-Guard® coated drum protects cable and prevents premature failure
- Quick, easy tool changes with manual drum lock
- Automatic drum lock secures load even if tension drops
- Containerized mainspring for safe, easy handling
- Easy external adjustment with no special tools
- Full range of motion with 360° swivel hanger
- Declutching hub prevents spring damage
- Shackle design provides extra-secure mounting
- Constructed from high tensile strength cast aluminum
- 3/16" diameter stranded galvanized steel cable

## *JA Balancers*

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| 20JA  | 6.0 - 11.0        | 2.1        | 13.0 - 25.0       | 7.0         |
| 30JA  | 11.0 - 16.0       | 2.1        | 24.0 - 35.0       | 7.0         |
| 40JA  | 13.0 - 20.0       | 2.1        | 29.0 - 45.0       | 7.0         |
| 50JA  | 18.0 - 25.0       | 2.1        | 40.0 - 55.0       | 7.0         |
| 70JA  | 24.0 - 32.0       | 2.1        | 53.0 - 70.0       | 7.0         |
| 80JA  | 31.0 - 39.0       | 2.1        | 68.0 - 86.0       | 7.0         |
| 90JA  | 36.0 - 41.0       | 2.1        | 79.0 - 90.0       | 7.0         |
| 100JA | 40.0 - 45.0       | 2.1        | 88.0 - 100.0      | 7.0         |

## *JA Balancers* with Extended Cable Travel\*

| model  | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|--------|-------------------|------------|-------------------|-------------|
| 9020JA | 4.0 - 9.0         | 2.7        | 10.0 - 20.0       | 9.0         |
| 9030JA | 9.0 - 14.0        | 2.7        | 20.0 - 30.0       | 9.0         |
| 9040JA | 13.0 - 18.0       | 2.7        | 30.0 - 40.0       | 9.0         |
| 9050JA | 18.0 - 23.0       | 2.7        | 40.0 - 50.0       | 9.0         |
| 9060JA | to - 29.0         | 2.7        | to - 65.0         | 9.0         |
| 9070JA | to - 33.0         | 2.7        | to - 72.0         | 9.0         |

\*Longer lead times may apply.

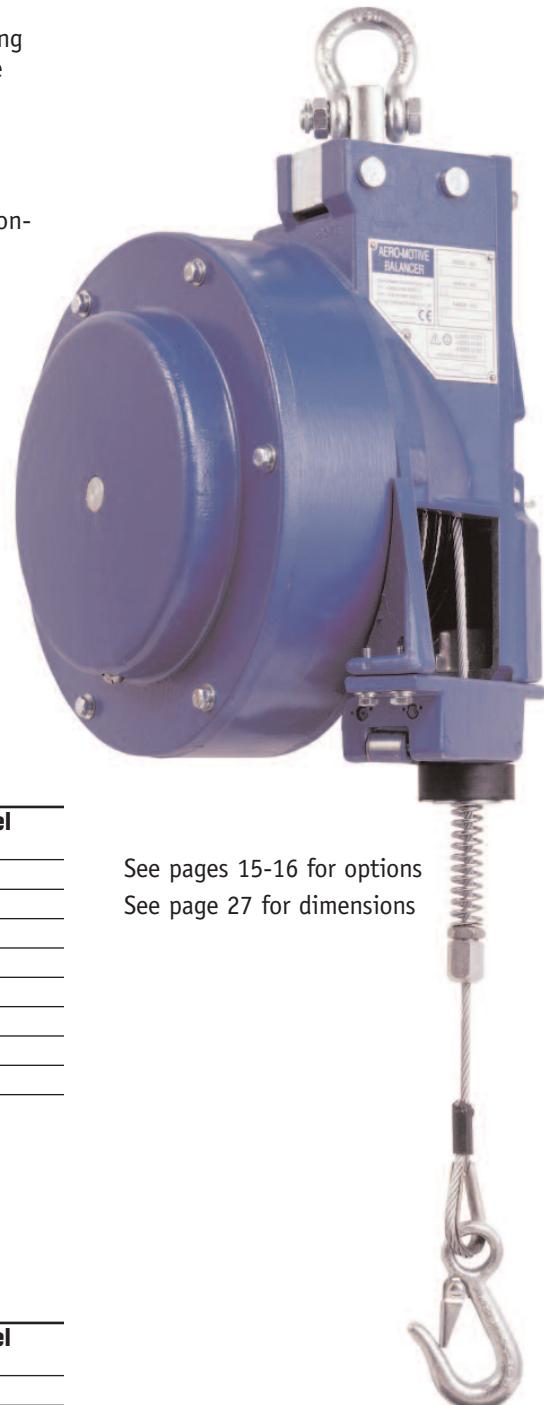


See pages 15-16 for options

See page 26 for dimensions

|                 |                  |
|-----------------|------------------|
| <b>KA</b>       | 36.0 - 110.0 kg  |
| 80.0 - 243.0 lb | <b>BALANCERS</b> |

- Premature failure is prevented by a Wear-Guard® coating on the drum and a four-roller guide, which protect the cable and drum from excessive wear
- Quick, easy tool changes with manual drum lock
- Automatic drum lock secures load even if tension drops
- Safe, easy spring handling is ensured with heavy-duty containerized mainspring
- Easy external adjustment with no special tools
- Full range of motion with 360° swivel hanger
- Spring damage prevented by declutching hub, even if spring is reverse wound
- Shackle design provides extra-secure mounting
- Cast aluminum construction for long life
- Extra durable cast aluminum housing
- 3/16" diameter stranded galvanized steel cable



#### *KA Balancers*

| model | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|-------|-------------------|------------|-------------------|-------------|
| 110KA | 38.0 - 52.0       | 2.1        | 84.0 - 115.0      | 7.0         |
| 120KA | 52.0 - 57.0       | 2.1        | 115.0 - 126.0     | 7.0         |
| 134KA | 56.0 - 66.0       | 2.1        | 124.0 - 146.0     | 7.0         |
| 156KA | 65.0 - 75.0       | 2.1        | 143.0 - 165.0     | 7.0         |
| 170KA | 72.0 - 79.0       | 2.1        | 159.0 - 175.0     | 7.0         |
| 192KA | 79.0 - 91.0       | 2.1        | 174.0 - 200.0     | 7.0         |
| 220KA | 91.0 - 100.0      | 1.8        | 200.0 - 221.0     | 6.0         |
| 240KA | 100.0 - 110.0     | 1.8        | 221.0 - 243.0     | 6.0         |

See pages 15-16 for options

See page 27 for dimensions

#### *KA Balancers* with Extended Cable Travel\*

| model  | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|--------|-------------------|------------|-------------------|-------------|
| 9110KA | 36.0 - 50.0       | 2.7        | 80.0 - 110.0      | 9.0         |
| 9120KA | 52.0 - 57.0       | 2.7        | 115.0 - 125.0     | 9.0         |
| 9140KA | 56.0 - 58.0       | 2.7        | 125.0 - 130.0     | 9.0         |
| 9150KA | to - 66.0         | 2.7        | to - 145.0        | 9.0         |

\*Longer lead times may apply.

**LA**

70.0 - 168.0 kg

155.0 - 370.0 lb

**BALANCERS**

- Premature failure is prevented by a Wear-Guard® coating on the drum and a four-roller guide, which protect the cable and drum from excessive wear
- Quick, easy tool changes with manual drum lock
- Automatic lock secures load if tension drops
- Caged mainspring for safe, easy spring handling
- Easy external adjustment with no special tools
- Full range of motion with 360° swivel hanger
- Declutching hub prevents spring damage, even if spring is reverse wound
- Cast aluminum construction for long life
- High tensile strength
- 3/16" cable diameter



#### *LA Balancers*

| model  | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|--------|-------------------|------------|-------------------|-------------|
| 210LA  | 79.0 - 95.0       | 2.1        | 174.0 - 210.0     | 7.0         |
| 230LA  | 95.0 - 107.0      | 2.1        | 209.0 - 236.0     | 7.0         |
| 250LA  | 106.0 - 113.0     | 2.1        | 234.0 - 250.0     | 7.0         |
| 260LA  | 113.0 - 120.0     | 2.1        | 249.0 - 265.0     | 7.0         |
| 280LA  | 120.0 - 127.0     | 2.1        | 265.0 - 280.0     | 7.0         |
| 290LA  | 127.0 - 132.0     | 2.1        | 280.0 - 291.0     | 7.0         |
| 300LA  | 131.0 - 136.0     | 2.1        | 289.0 - 300.0     | 7.0         |
| 330LAS | 136.0 - 150.0     | 1.5        | 300.0 - 331.0     | 5.0         |
| 350LAS | 150.0 - 159.0     | 1.5        | 330.0 - 350.0     | 5.0         |
| 370LAS | 163.0 - 168.0     | 1.5        | 350.0 - 370.0     | 5.0         |

See pages 15-16 for options

See page 27 for dimensions

#### *LA Balancers* with Extended Cable Travel\*

| model  | weight range (kg) | travel (m) | weight range (lb) | travel (ft) |
|--------|-------------------|------------|-------------------|-------------|
| 9160LA | 70.0 - 75.0       | 2.7        | 155.0 - 165.0     | 9.0         |
| 9198LA | 85.0 - 90.0       | 2.7        | 188.0 - 198.0     | 9.0         |
| 9200LA | 81.0 - 86.0       | 2.7        | 180.0 - 190.0     | 9.0         |
| 9210LA | 90.0 - 95.0       | 2.7        | 200.0 - 210.0     | 9.0         |
| 9230LA | 95.0 - 98.0       | 2.7        | 210.0 - 215.0     | 9.0         |

\*Longer lead times may apply.

|               |                     |
|---------------|---------------------|
| 1515T         | 2.3 - 6.8 kg        |
| 5.0 - 15.0 lb | <b>TORQUE REELS</b> |



**Torque reels** are reeling devices primarily designed for suspending push-button pendent stations weighing up to 15 lbs. A lock mechanism permits the operator to stop a load at a desired height, while a slight pull on the cable releases the lock.

- Easy load height adjustment; a slight pull on the cable releases the lock
- Features an Off switch to disengage locking mechanism when constant tension is required
- Easy external tension adjustment
- Adjustable cable stop, snap hook, multi-directional guide, forged clevis top mount, and 15 feet of cable
- Rigid mount included on model 1515TR
- 3/32" diameter stranded galvanized steel cable

See page 27 for dimensions

**1515T Hanging Torque Reel**



**1515TR Rigid Mount Torque Reel**



#### Torque Reels

| model  | weight (kg) | travel (m) | tension buildup(kg) | weight (lb) | travel (ft) | tension buildup(lb) |
|--------|-------------|------------|---------------------|-------------|-------------|---------------------|
| 0515T  | 2.3         | 1.58       | 3.20                | 5.0         | 15.0        | 7.0                 |
| 1015T  | 4.5         | 1.58       | 5.50                | 10.0        | 15.0        | 12.0                |
| 1515T  | 6.8         | 4.58       | 8.64                | 15.0        | 15.0        | 19.0                |
| 1515TR | 6.8         | 4.58       | 8.64                | 15.0        | 15.0        | 19.0                |

## STATIC DISCHARGE GROUNDING REELS

ELIMINATES STATIC BUILD-UP. SPRING-OPERATED, AUTOMATIC RETRIEVAL.



- Spring operated, automatic retrieve reel
- Stranded steel aircraft cable is 3/32".
- Provides light, constant spring tension on the cable
- 100 ampere ground clamp
- Rubber cable stop
- 2050Y Reel with a "Y" bridle allows two ground connections at the same time, providing maximum efficiency.

#### Static Discharge Grounding Reels

| Model    | Cable length |    | Net weight |    | Resistance ohms |
|----------|--------------|----|------------|----|-----------------|
|          | m            | ft | kg         | lb |                 |
| 2050     | 15.24        | 50 | 5.44       | 12 | 2.0             |
| 2050Y*   | 15.24        | 50 | 5.44       | 12 | 2.0             |
| 2050NC   | 15.24        | 50 | 5.44       | 12 | 2.0             |
| 2050CT   | 15.24        | 50 | 5.44       | 12 | 2.0             |
| 2050NCCT | 15.24        | 50 | 5.44       | 12 | 2.0             |

"NC" = nylon coated cable 3/32"

"CT" = constant tension models.

\*2050 Reel with "Y" Bridle (30 ft. payout then 20 ft. bridle for each branch, with clamps) allows simultaneous grounding at two points.

# ACCESSORIES

## OVERHANG CABLE

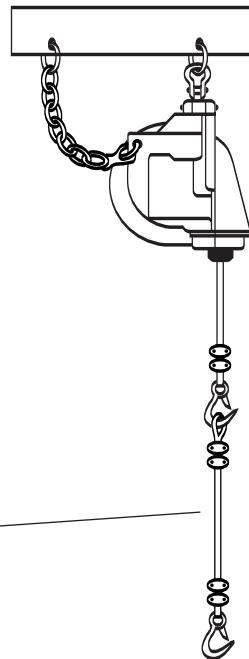
0.9 - 10.6 Meters

3.0 - 35.0 Feet

### Overhang Cable for RB, RF, BF, F & FLRC (Fixed length)

| model   | Length (m) | Length (ft) |
|---------|------------|-------------|
| CBOF009 | 0.9        | 3.0         |
| CBOF015 | 1.5        | 5.0         |
| CBOF030 | 3.0        | 10.0        |
| CBOF045 | 4.5        | 15.0        |
| CBOF060 | 6.0        | 20.0        |
| CBOF076 | 7.6        | 25.0        |
| CBOF091 | 9.1        | 30.0        |
| CBOF106 | 10.6       | 35.0        |

- Provides additional length by attaching to retractable cable supplied with balancer
- Allows balancer to be mounted at a higher elevation
- ★ DOES NOT RETRACT INTO HOUSING



### Overhang Cable for EA, EB, JA, KA & LA (Adjustable w/ clamps)

| model    | Length (m) | Length (ft) |
|----------|------------|-------------|
| CBOL020  | 2.0        | 6.5         |
| CBOL050  | 5.0        | 16.4        |
| CBOL0100 | 10.0       | 32.8        |

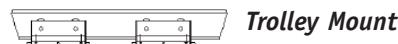
## SECONDARY SUPPORT CHAINS AND CABLE

### FOR BALANCERS AND TORQUE REELS

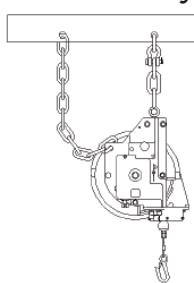


- Provides additional safety by preventing balancer from accidentally falling due to failure of the support structure
- Chain or cable attaches to the balancer and to a support other than the balancer support

The length of the chain or cable should be kept to an absolute minimum and may need to be adjusted.



**Stationary Mount**



### Support Chain\*

| model | Length (mm) | Length (in) | Description             |
|-------|-------------|-------------|-------------------------|
| SSPLC | 483         | 19          | for EA, JA, KA & LA     |
| SSPEC | 508         | 20          | for EB, F, FLRC & 1515T |

### Support Wire Cable\*

| model | Length (mm) | Length (in) | Description |
|-------|-------------|-------------|-------------|
| SSPBR | 508         | 20          | for RF & BF |
| SSPRR | 388         | 15.25       | for RB      |

\*To omit support device from balancer, add suffix "D" to model number. Suffixes are added in alphabetical order. A price reduction may apply.

## SPECIAL CABLE HOOK OPTIONS

FOR E, JA, KA AND LA

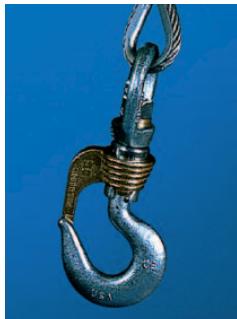
### Field Kits / Replacement Parts for Balancers

#### Upper Hook Assembly

| Model | Description                    |
|-------|--------------------------------|
| UHKEB | Bullard Type for EA            |
| UHKKB | Bullard Type for JA, KA        |
| UHKLB | Bullard Type for LA (2.1m/7ft) |
| UHK9B | Bullard Type for LA (2.7m/9ft) |
| UHKES | Shackle Type for EA            |
| UHKKS | Shackle Type for JA, KA        |
| UHKLS | Shackle Type for LA (2.1m/7ft) |
| UHK9S | Shackle Type for LA (2.7m/9ft) |

#### Cable & Lower Hook

| Model  | Description                              |
|--------|--|
| CBAEB  | Bullard Type for EA                      |
| CBAEGL | Bullard Type for EL                      |
| CBALB7 | Bullard Type for JA, KA, LA (2.1m/7ft)   |
| CBALB9 | Bullard Type for JA, KA, LA (2.7m/9ft)   |
| CBAET  | Tool Clip Type for EA                    |
| CBAETL | Tool Clip Type for EL                    |
| CBALT7 | Tool Clip Type for JA, KA, LA (2.1m/7ft) |
| CBALT9 | Tool Clip Type for JA, KA, LA (2.7m/9ft) |



- Bullard hooks and clamp and insulator options are available to upgrade standard hook configurations.
- EA, EB, JA, KA and LA come standard with upper shackle and tool clip.
- All Bullard hook options have a locking gate

#### Hook Upgrade

To upgrade hooks, find desired option in chart below, and add suffixes to model number in alphabetical order. Example: 80JABU = balancer with upper Bullard and bottom Bullard Hooks.

|                      |          |                  |  |                     |  |               |                     |                  |                    |
|----------------------|----------|------------------|--|---------------------|--|---------------|---------------------|------------------|--------------------|
| Upper Hook Assembly  |          | Upper Shackle    |  |                     |  |               | Upper Mercedes Hook |                  | Upper Bullard Hook |
| Bottom Hook Assembly |          | Bottom Tool Clip |  | Bottom Bullard Hook |  | Bottom Clamps |                     | Bottom Insulator |                    |
| EA                   | Standard | B                |  | C                   |  | I             |                     | M                | U                  |
| EB                   | Standard | B                |  |                     |  | I             |                     | M                | U                  |
| JA, KA               | Standard | B                |  | C                   |  | I             |                     | M                | U                  |
| LA                   | Standard | B                |  | C                   |  | I             |                     | M                | U                  |



**Shackle Hook**



**Bullard Hook**



## BT3

0.0 - 136.0 kg

0.0 - 300.0 lb

## TROLLEYS

- Quiet operation & long-lasting performance, with polyurethane wheels on either 4" I-beam or 3 1/4" patented rail
- Insulated trolleys are safeguarded from electrical charges, with suspended load electrically insulated from the support beam above

## BT5

0.0 - 227.0 kg

0.0 - 500.0 lb

## TROLLEYS

- High-speed design with steel wheels & presealed high-speed bearings
- Available for 4" I-beam or 3 1/4" patented rail

| Model  | Description                                | Wheels       |
|--------|--|--------------|
| BT34I  | Trolley for 4" I-Beam                      | Polyurethane |
| BT3PR  | Trolley for 3 1/4" Patented Rail           | Polyurethane |
| BT34IW | Insulated Trolley for 4" I-Beam            | Polyurethane |
| BT3PRW | Insulated Trolley for 3 1/4" Patented Rail | Polyurethane |
| BT54I  | Trolley for 4" I-Beam                      | Steel        |
| BT5PR  | Trolley for 3 1/4" Patented Rail           | Steel        |

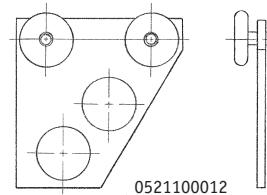
See page 23 for dimensions



## BALANCER TROLLEY

FOR USE WITH OVERHEAD TRACK

- 0541100012 is compatible with 5400 tracks and 0521100012 is compatible with 5200 tracks
- 5400- max. 22 Kg (50lb) capacity  
5200- max. 13 Kg (30lb) capacity



See page 22-23 for track selection.



## HOSE AND CABLE SUPPORTS

FOR 12.5mm - 32mm (0.49" - 1.25") DIAMETER

- Increases worker safety by keeping hoses/cables out of the way
- Increases hose/cable life and efficiency
- Allows easy access to hose/cable when needed
- Works well with Aero-Motive® balancers and torque reels featuring ratchet lock

| Model      | Hose / Cable Diameter       |
|------------|-----------------------------|
| 6102000000 | 12.5mm - 23mm (0.49"-0.91") |
| 6102100000 | 23mm - 32mm (0.91"-1.25")   |

Hose support adapts to GM31, RB, BF and FLRC Balancer, and No. 1515T Torque Reel only.

## BALANCER SERVICE KITS

FOR EA, EB, JA, KA AND LA

| Model                   | Description   | CBG<br>Cable<br>Guide | STAL<br>Star<br>Wheel Kit   | DRM<br>Drum<br>Kit   | DLK<br>Drum<br>Lock Kit   | DSL<br>Drop Stop<br>Lever Kit   | DSA<br>Drop Stop<br>Actuator<br>Kit   |
|-------------------------|---|-----------------------|---|--|---|---|---|
| CBGE                    | Cable Guide Assy for EA Balancers   |                       |   |  |   |   |   |
| CBGK                    | Cable Guide Assy for JA, KA Balancers   |                       |   |  |   |   |   |
| CBGL                    | Cable Guide Assy for LA Balancers   |                       |   |  |   |   |   |
| STAL7                   | Star Wheel Kit /Cable Length 7 ft(std) for JA, KA, LA Balancers                     |                       |   |  |   |   |   |
| STAL9                   | Star Wheel Kit /Cable Length 9 ft(extd) for JA, KA, LA Balancers                    |                       |   |  |   |   |   |
| DLKE                    | Drum Lock Kit for EA Balancers  |                       |   |  |   |   |   |
| DLKK                    | Drum Lock Kit for JA, KA, EB Balancers  |                       |   |  |   |   |   |
| DLKL                    | Drum Lock Kit for LA Balancers  |                       |   |  |   |   |   |
| DRME7                   | Drum Kit for EA Balancers (2.1m/7ft)  |                       |   |  |   |   |   |
| DRMK7                   | Drum Kit for JA, KA Balancers (2.1m/7ft)  |                       |   |  |   |   |   |
| DRMK9                   | Drum Kit for JA, KA Balancers (2.7m/9ft)  |                       |   |  |   |   |   |
| DRML7                   | Drum Kit for LA Balancers (2.1m/7ft)  |                       |   |  |   |   |   |
| DRML9                   | Drum Kit for LA Balancers (2.7m/9ft)  |                       |   |  |   |   |   |
| SHFE                    | Shaft Kit for EA Balancers  |                       |   |  |   |   |   |
| SHFJ                    | Shaft Kit for JA Balancers  |                       |   |  |   |   |   |
| SHFK                    | Shaft Kit for KA Balancers  |                       |   |  |   |   |   |
| SHFL                    | Shaft Kit for LA Balancers  |                       |   |  |   |   |   |
| WRME                    | Worm Gear Kit for EA Balancers  |                       |   |  |   |   |   |
| WRMJ                    | Worm Gear Kit for JA, KA Balancers  |                       |   |  |   |   |   |
| WRML                    | Worm Gear Kit for LA Balancers  |                       |   |  |   |   |   |
| DSLK                    | Drop Stop Lever Kit for JA, KA, Balancers   |                       |   |  |   |   |   |
| DSAEA                   | Drop Stop Actuator Kit for EA   |                       |   |  |   |   |   |
| DSAJA                   | Drop Stop Actuator Kit for 20JA/9020JA  |                       |   |  |   |   |   |
| DSAJB                   | Drop Stop Actuator Kit for 30-60JA/9030-60JA  |                       |   |  |   |   |   |
| DSAJC                   | Drop Stop Actuator Kit for 70-100JA/9070JA  |                       |   |  |   |   |   |
| DSAKA                   | Drop Stop Actuator Kit for 110-130KA/9110-20KA                                      |                       |   |  |   |   |   |
| DSAKB                   | Drop Stop Actuator Kit for 140-160KA/9140-50KA                                      |                       |   |  |   |   |   |
| DSAKC                   | Drop Stop Actuator Kit for 170-200KA  |                       |   |  |   |   |   |
| WRM<br>Worm Gear<br>Kit |  | SHF<br>Shaft Kit      |  |  |  |  |  |

Note: Photos on this page are representative.  
Included parts may vary by model.

## BALANCER SPRING ASSEMBLY KITS

FOR E, EL, JA, KA AND LA

| Balancer    | Spring Assembly | Balancer              | Outer Spring | Inner Spring | Balancer     | Spring Assembly |
|-------------|-----------------|-----------------------|--------------|--------------|--------------|-----------------|
| 10E         | 4191200000      | 110KA/9110KA          | 3127600110   | 3127700110   | 210LA        | 3139800008      |
| 20E         | 3165900020      | 120KA/9120KA          | 3127600120   | 3127700120   | 230LA/9230LA | 3139800009      |
| 30E         | 3165900030      | 130KA-140KA/9030-40KA | 3127600140   | 3127700140   | 250LA        | 3139800013      |
| 40E         | 3165900040      | 150KA-160KA/9150-60KA | 3127600160   | 3127700160   | 260LA        | 3139800010      |
| 50E         | 3165900050      | 170KA                 | 3127600170   | 3127700170   | 280LA        | 3139800010      |
| 60E         | 3165900060      | 190KA                 | 3127600190   | 3127700190   | 290LA        | 3139800011      |
| 25EL        | 4191000000      | 192KA & 200KA         | 3127600200   | 3127700200   | 300LA        | 3139800015      |
| 40EL        | 3167200040      |                       |              |              | 330LA        | 3139800019      |
| 60EL        | 3167200060      |                       |              |              | 350LA        | 3139800018      |
|             |                 |                       |              |              | 370LA        | 3139800017      |
| 20JA/9020JA | 3118400020      |                       |              |              | 9160LA       | 3139800012      |
| 30JA/9030JA | 3118400030      |                       |              |              | 9198LA       | 3139800006      |
| 40JA/9040JA | 3118400040      |                       |              |              | 9200LA       | 3139800007      |
| 50JA/9050JA | 3118400050      |                       |              |              | 9210LA       | 3139800001      |
| 60JA/9060JA | 3118400060      |                       |              |              |              |                 |
| 70JA/9070JA | 3118400070      |                       |              |              |              |                 |
| 80JA        | 3118400080      |                       |              |              |              |                 |
| 90JA        | 3118400090      |                       |              |              |              |                 |
| 100JA       | 3118400100      |                       |              |              |              |                 |



*Spring  
Assembly*

## Workstation Assemblies

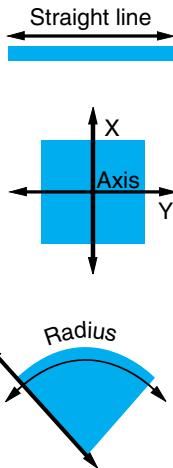
Woodhead offers all the workstation assemblies and components you need. With Aero-Motive® workstation assemblies, you can optimize your use of space through bench, wall, or floor-mounted arms, as well as extended runways that increase horizontal space options. Pivoting fixture and trolley mounts provide quick access to tools and greater freedom of movement.

### Layout Guidelines

- What kind of work flow occurs in the area in question? Is it a straight-line application? An X-Y axis? A radius application? In this catalog, we have indicated which workstations and components are suitable for each application.
- Consider the type of tool used and how much of the work area the tool must be able to reach.
- System total suspended weight should not exceed 50 pounds for 5400 products, 30 pounds for 5200. Total suspended weight includes tool balancer, suspended tool, balancer trolley and cable or hose.

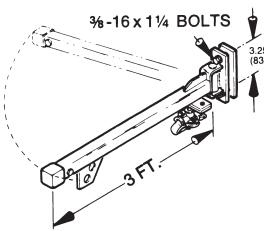
- Maximum unsupported horizontal track length is 6 feet. When mounting horizontal lengths of track, it is essential that any one unsupported length of track not exceed this length.

- Maximum unsupported vertical track length is 6 feet. When using vertical lengths of track, it is essential that any one unsupported length of track not exceed this length. Unsupported vertical lengths of track that exceed 6 feet in height should be mounted to walls or work benches using a Model No. 5400-SC support clamp.



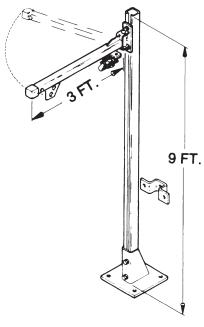
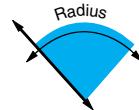
## 5200

### WORKSTATION ASSEMBLIES



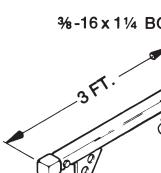
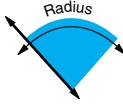
#### Wall-Mounted 180° Swinging Jib

Model No. 0525200034  
Max. Capacity 30 lbs. (13.6 Kg)  
Total Length 3 ft. (0.9 m)  
With Trolley and End Clamp  
.49" - 1.25" O.D.



#### Floor/Bench-Mounted Swinging Jib

Model No. 0526200034  
Max. Capacity 30 lbs. (13.6 Kg)  
Total Length 3 ft. (0.9 m)  
With Trolley and End Clamp  
.49" - 1.25" O.D.  
(Must be used in conjunction with bench)



#### Wall-Mounted Fixed Jib

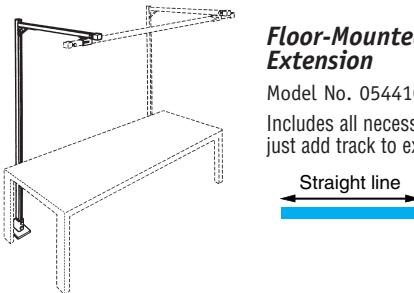
Model No. 0525100034  
Max. Capacity 30 lbs. (13.6 Kg)  
Total Length 3 ft. (0.9 m)  
With Trolley and End Clamp  
.49" - 1.25" O.D.



# WORKSTATION ASSEMBLIES



## 5400 WORKSTATION ASSEMBLIES

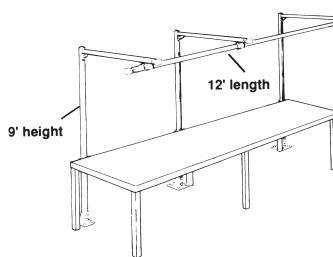


### Floor-Mounted Runway Extension

Model No. 0544100069

Includes all necessary hardware — just add track to extend the system.

Straight line



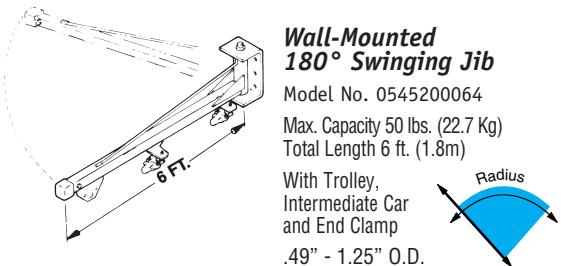
### Triple Floor-Mounted Runway

Model No. 0544100012

Max. Capacity 50 lbs. (22.7 Kg)  
Total Length 12 ft. (3.7m)

Bench and Cars not included

Straight line



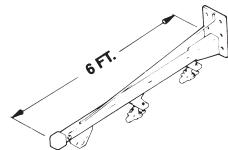
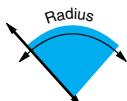
### Wall-Mounted 180° Swinging Jib

Model No. 0545200064

Max. Capacity 50 lbs. (22.7 Kg)  
Total Length 6 ft. (1.8m)

With Trolley,  
Intermediate Car  
and End Clamp

.49" - 1.25" O.D.



### Wall-Mounted Fixed Jib

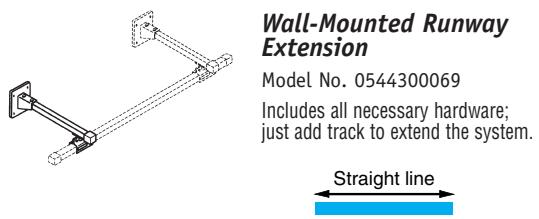
Model No. 0545100064

Max. Capacity 50 lbs. (22.7 Kg)  
Total Length 6 ft. (1.8m)

With Trolley,  
Intermediate Car  
and End Clamp

.49" - 1.25" O.D.

Straight line

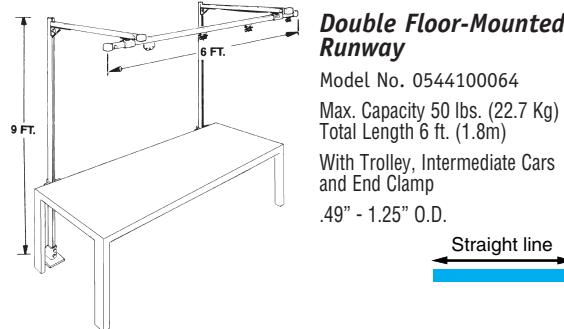


### Wall-Mounted Runway Extension

Model No. 0544300069

Includes all necessary hardware — just add track to extend the system.

Straight line



### Double Floor-Mounted Runway

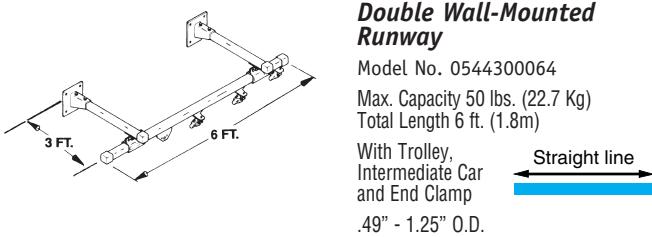
Model No. 0544100064

Max. Capacity 50 lbs. (22.7 Kg)  
Total Length 6 ft. (1.8m)

With Trolley, Intermediate Cars  
and End Clamp

.49" - 1.25" O.D.

Straight line



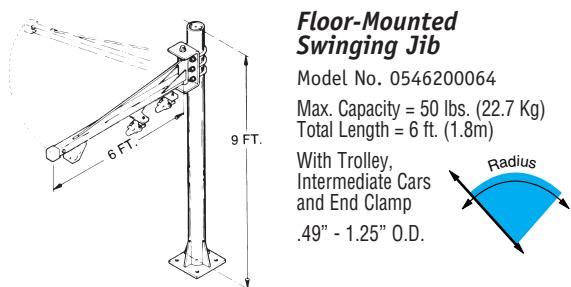
### Double Wall-Mounted Runway

Model No. 0544300064

Max. Capacity 50 lbs. (22.7 Kg)  
Total Length 6 ft. (1.8m)

With Trolley,  
Intermediate Car  
and End Clamp

.49" - 1.25" O.D.



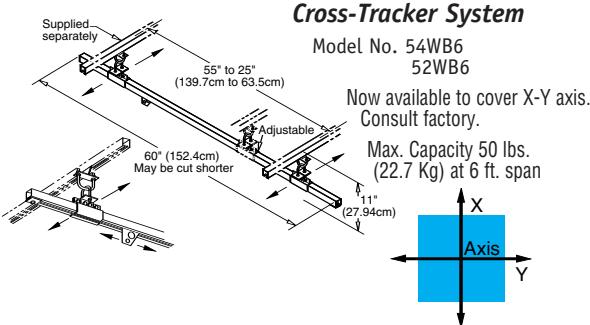
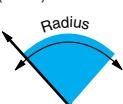
### Floor-Mounted Swinging Jib

Model No. 0546200064

Max. Capacity = 50 lbs. (22.7 Kg)  
Total Length = 6 ft. (1.8m)

With Trolley,  
Intermediate Cars  
and End Clamp

.49" - 1.25" O.D.

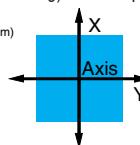


### Cross-Tracker System

Model No. 54WB6  
52WB6

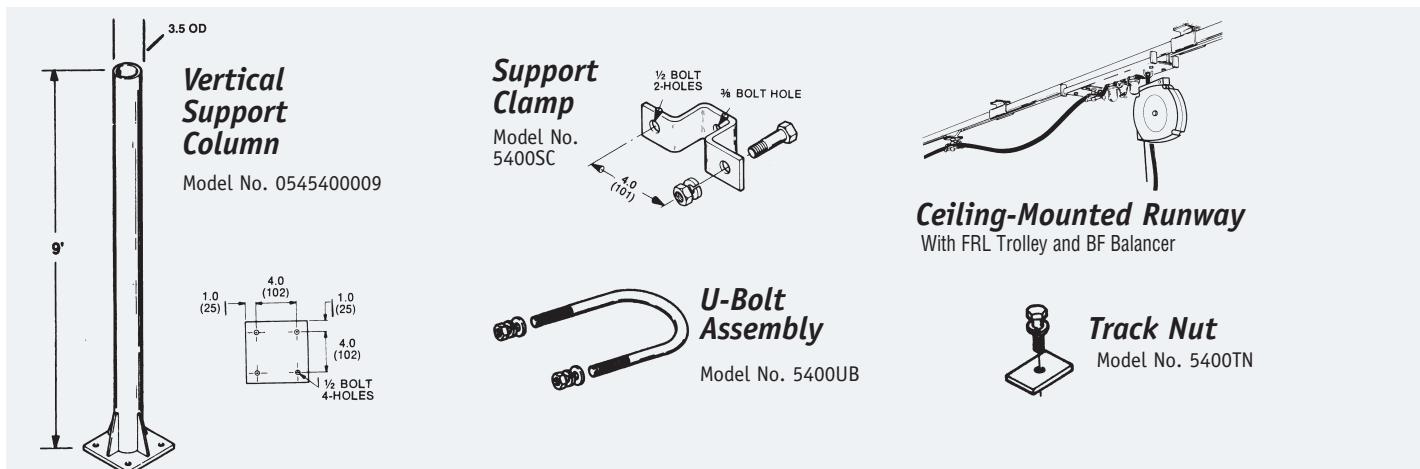
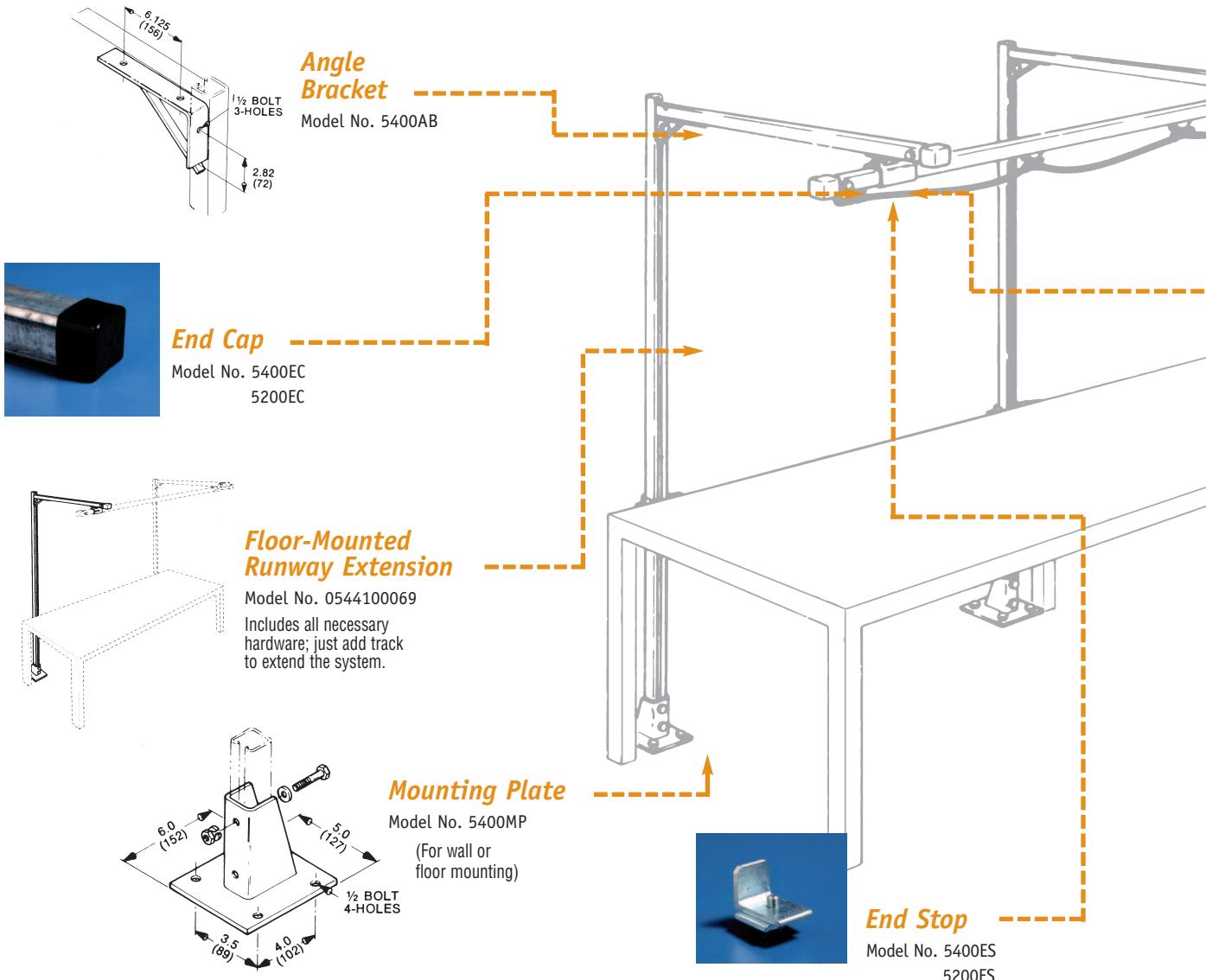
Now available to cover X-Y axis.  
Consult factory.

Max. Capacity 50 lbs.  
(22.7 Kg) at 6 ft. span

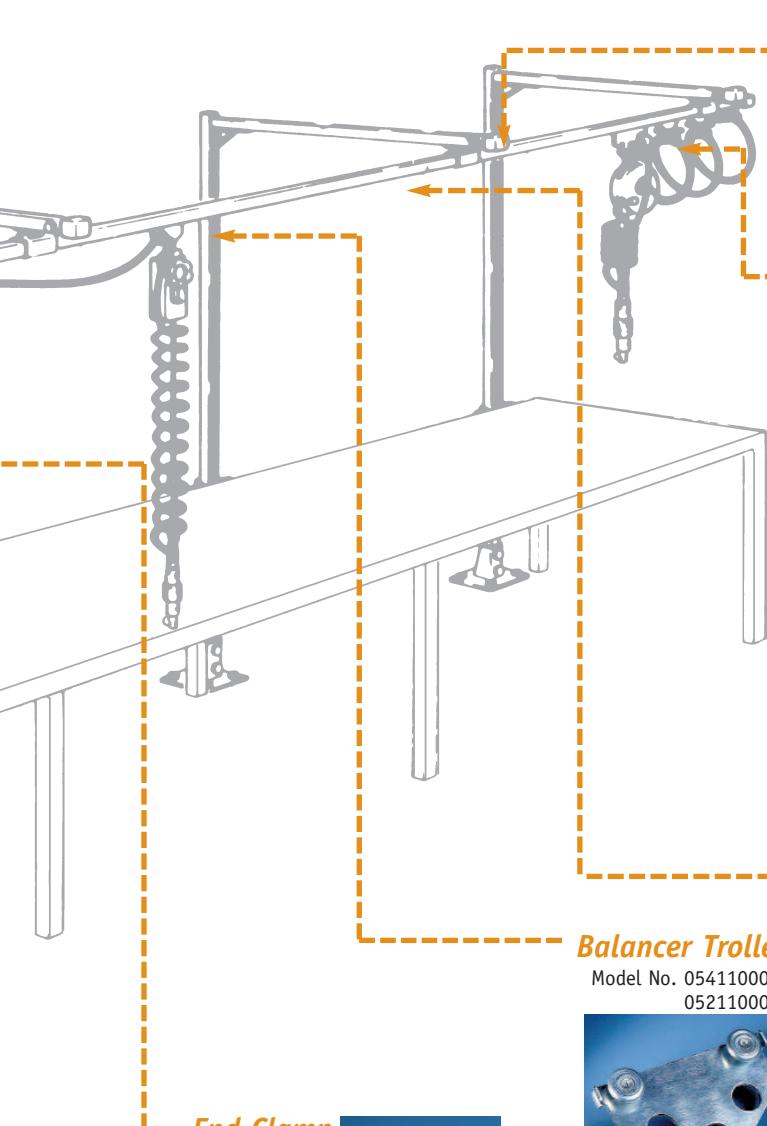


# WORKSTATION ASSEMBLIES

## 5200 & 5400 WORKSTATION COMPONENTS

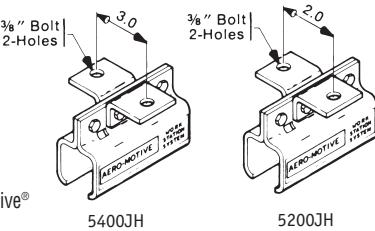


# WORKSTATION ASSEMBLIES



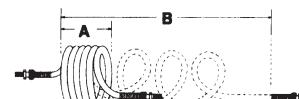
## Joint Hanger Bracket

Model No. 5400JH  
5200JH  
To hang from Aero-Motive® track, add two 5400-TN  
(Track Nuts)



## Intermediate Car

Model No. 0542100012  
(0.49" - 0.90" O.D.)  
Model No. 0543100012  
(0.91" - 1.25" O.D.)  
Model No. 5221-1  
(0.49" - 0.91" O.D.)  
Model No. 5231-1  
(0.91" - 1.25" O.D.)



| Model      | Size | A  | B   |
|------------|------|----|-----|
| 0548200008 | 1/4" | 6" | 8'  |
| 0548200012 | 1/4" | 8" | 12' |
| 0548300008 | 3/8" | 6" | 8'  |
| 0548300012 | 3/8" | 8" | 12' |

Male swivel pipe fittings, both ends

## Track

Model No. 54006: 6 ft. (1.5m)  
52006: 6 ft. (1.5m)  
Model No. 540012: 12 ft. (3.7m)  
520012: 12 ft. (3.7m)



## Horizontal Support Track

Model No. 0545300003: 3 ft. (.9m)

**Vertical Support Track**  
Model No. 0545300009: 9 ft. (2.7m)  
5200 - max. 30lb capacity  
5400 - max. 50lb capacity

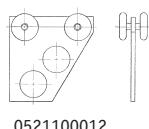
## End Clamp

Model No. 54212, 52212  
(0.49" - 0.90" O.D.)  
Model No. 54312, 52312  
(0.91" - 1.25" O.D.)



## Balancer Trolley

Model No. 0541100012  
0521100012



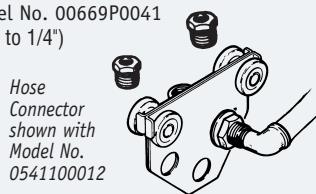
## Balancer Trolley Hose Connector

Model No. 0547100001  
May also be used with  
5200 Balancer Trolley.



## Reducer Bushing

Model No. 00669P0041  
(3/8" to 1/4")



## Hose Support

Model No. 6102000000  
(0.49" - 0.90" O.D.)  
Model No. 6102100000  
(0.91" - 1.25" O.D.)  
Hose/cable clamping capacity

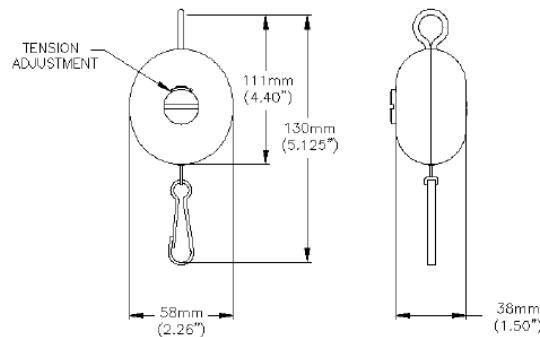


## Filter Regulator Lubricator (FRL) Balancer Trolley

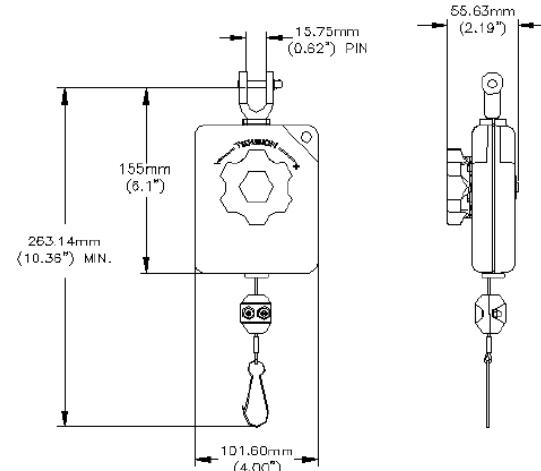
With provisions for FRL mounting  
Model No. 5521FR (0.49" - 0.90" O.D.)  
Model No. 5531FR (0.91" - 1.25" O.D.)



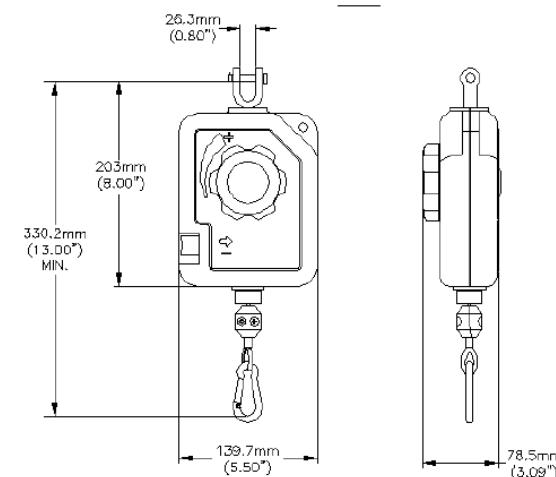
**GM Positioner**  
(page 4)



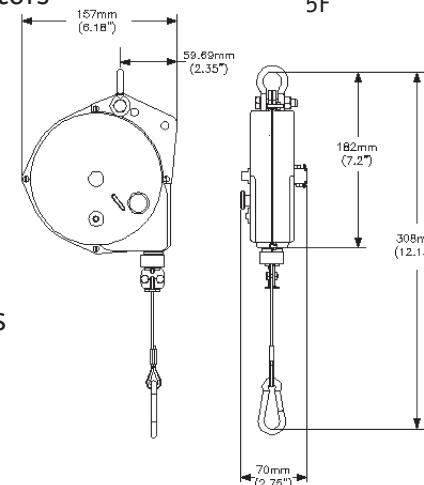
**RB Retractor**  
(page 5)



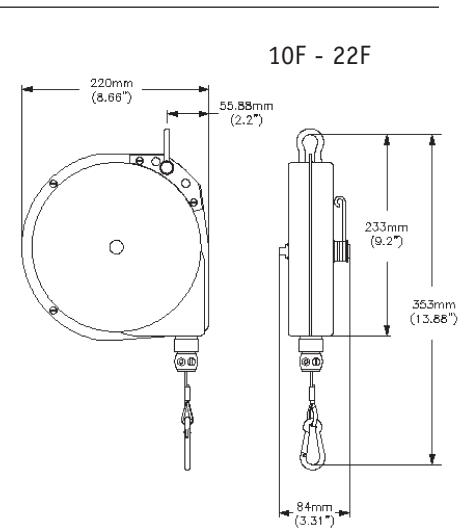
**RF Retractor**  
(page 5)



**5F Retractors**  
(page 6)

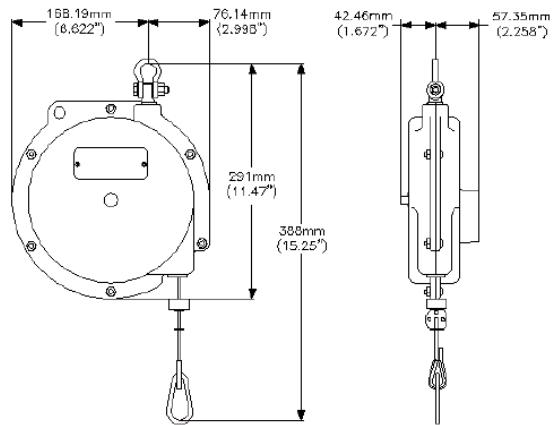


**10F - 22F**  
Retractors  
(page 6)

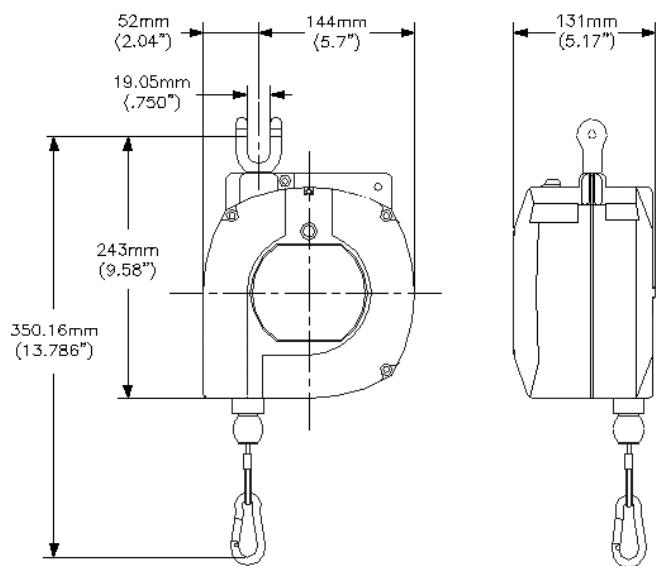




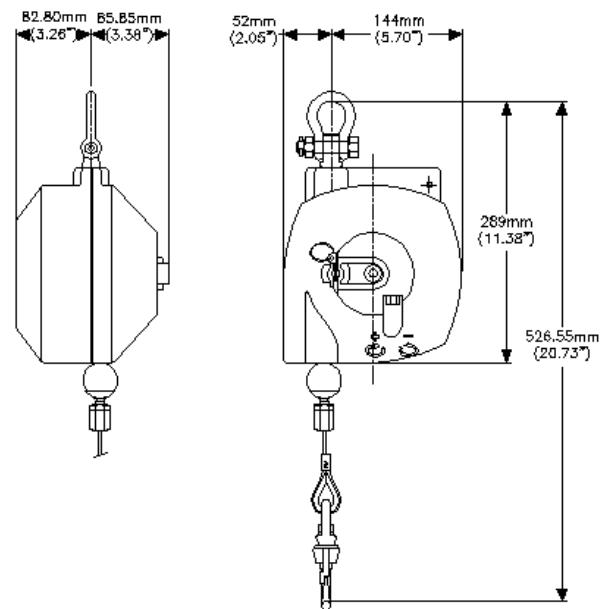
**FLRC Retractors**  
(page 6)



**BF Balancer**  
(page 8)



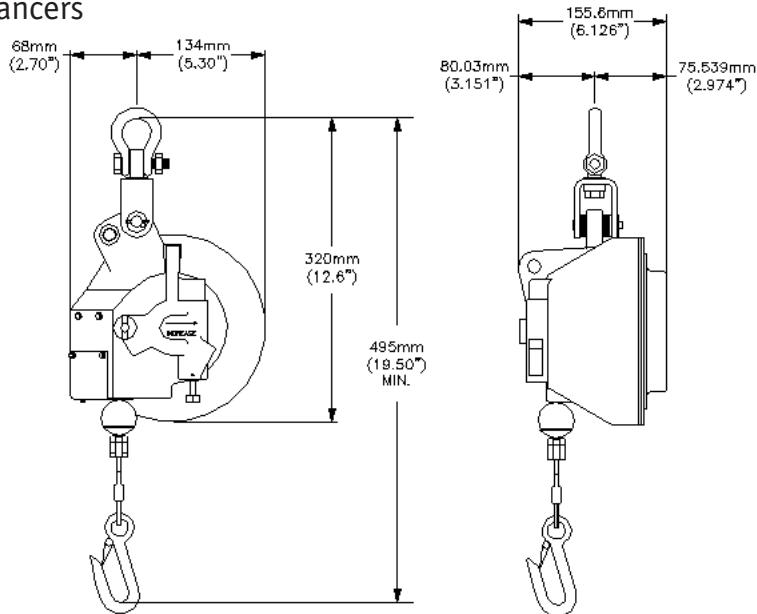
**EB Balancer**  
(page 9)





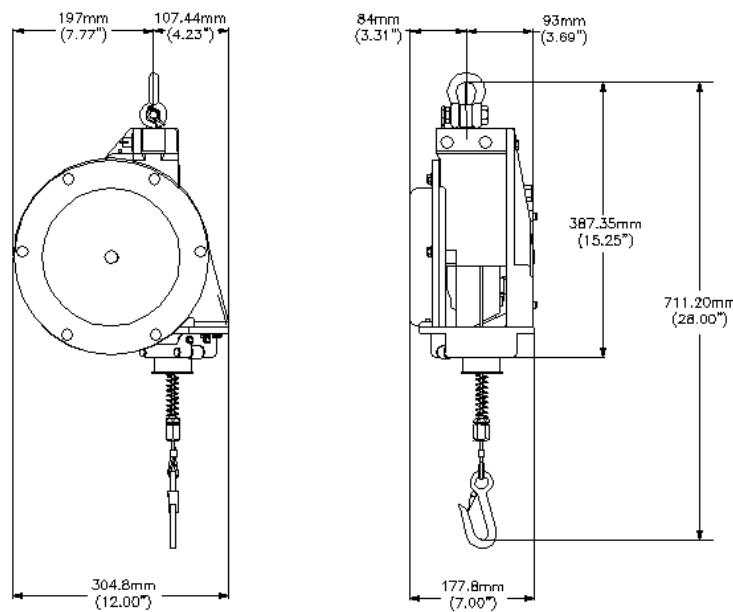
## EA/EL Balancers

(page 10)



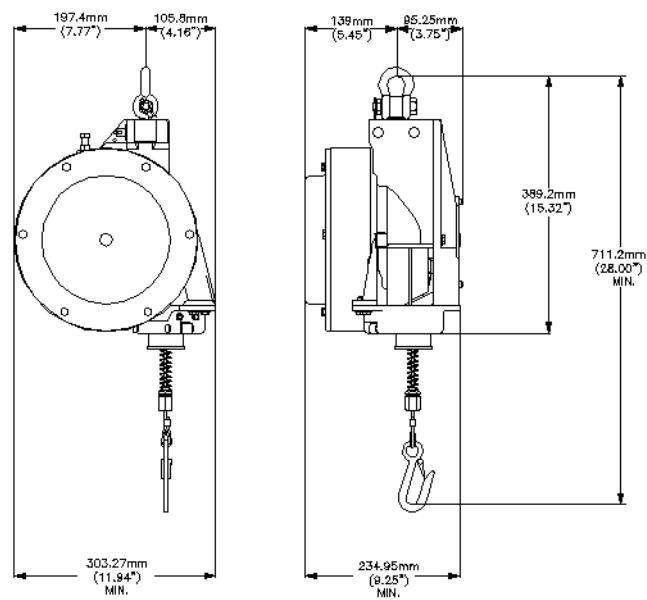
## JA Balancer

(page 11)



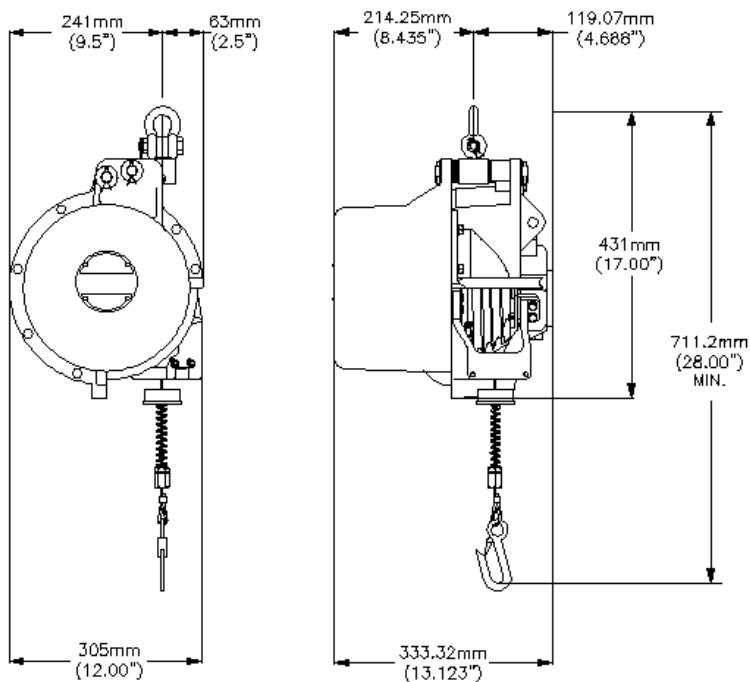
## KA Balancer

(page 12)

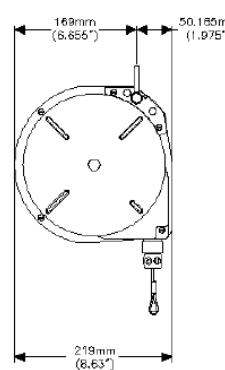




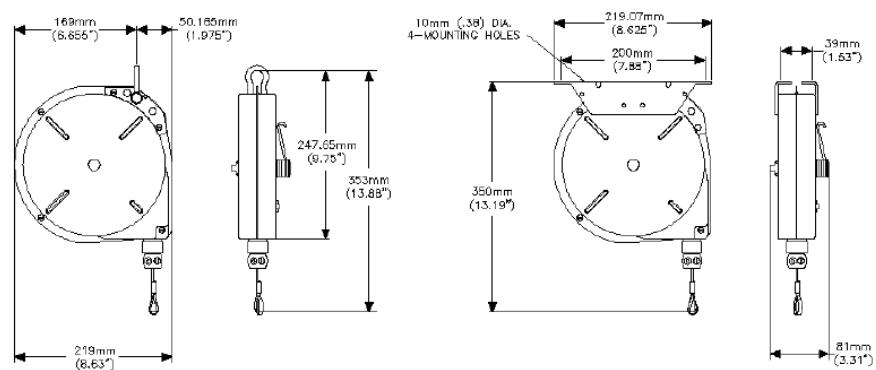
LA Balancer (page 13)



1515T  
Torque Reel  
(page 14)



1515TR  
Torque Reel  
(page 14)

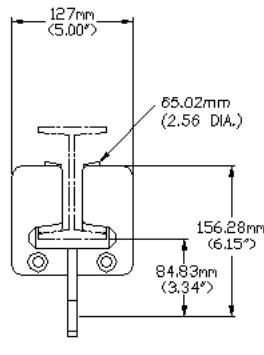
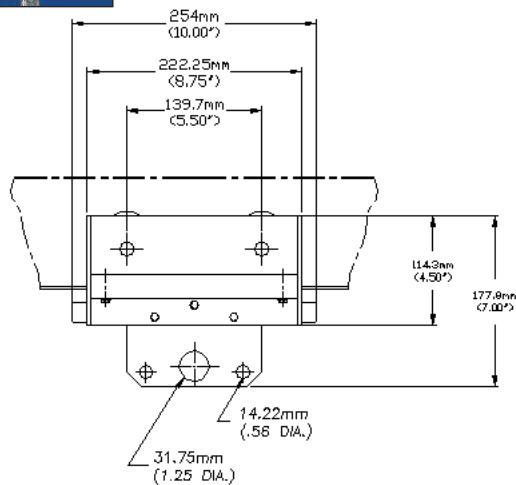


1515T

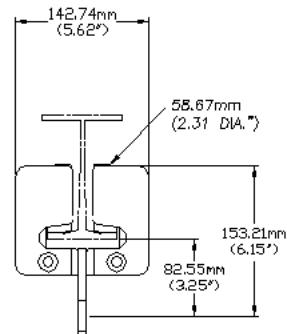
1515TR



Blancer Trolleys  
(page 17)



Trolley for 4" I-beam  
suspension



Trolley for 3 1/4" patented  
rail suspension

## Tool Balancers...



- Positioners
- Retractors
- Balancers



## Portable Lighting...



- Wide Area Lamps
- Handlamps
- Temporary Lighting



## Cable Grips...



- Strain Relief Grips
- Support Grips
- Pulling Grips



## Reels...



- Cord Reels
- Cable Reels
- Hose Reels



## Wiring Devices...



- Safeway+™
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- Pushbuttons
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