Aero-Motive®

01

0)

6)

P

1

balancers and tool support



Includes Positioners Retractors Balancers Torque Reels Workstation Assemblies Accessories



www.woodhead.com

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

Positioner
Retractors 4-7
Balancers
Torque Reels & Grounding Reels 14
Accessories 15-18
Cable Support Grips 19
Workstation Assemblies 20-23
Technical Drawings 24-27



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	travel	weight travel
	range (kg)	(m)	range (lb) (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
00000				

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.

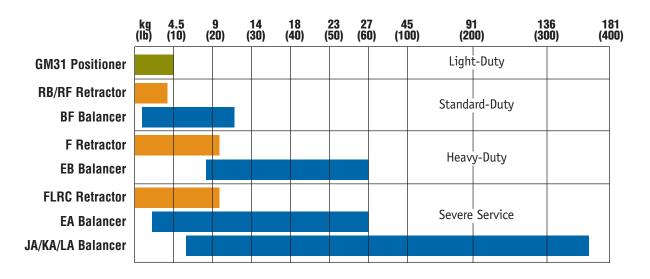


Balancers

- 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.





GM 0.5 - 4.5 kg 1.0 - 10.0 lb TOOL POSITIONER



- 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

Accessory Tool Clip (only) Model #01146P0015



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

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 travel range (lb) (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	



F 0.4 - 10.0 kg RETRACTORS 1.0 - 22.0 lb

- 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 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	

0.8 - 10.0 kg

CAST ALUMINUM RETRACTOR

10F Retractor

5F Retractor

See page 24 for dimensions

FLRC 2.0 - 22.0 lb

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
- 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	

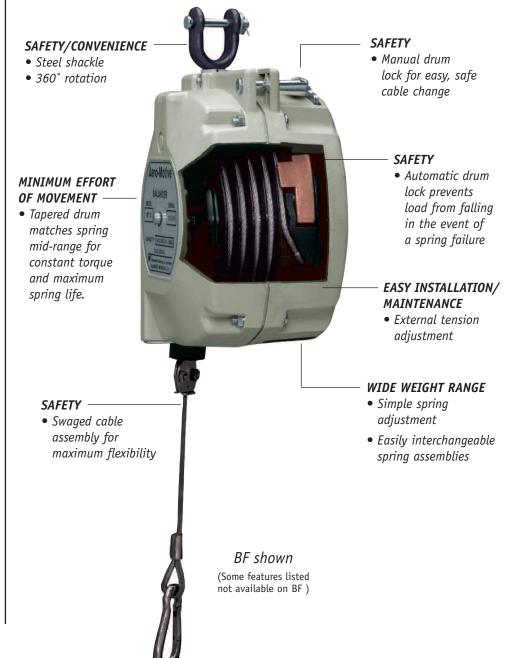


BALANCERS

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 optimimum 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.



Make tools virtually weightless for faster, safer production

BF 1.4 - 10.9 kg

3.0 - 24.0 lb **BALANCERS**

- 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

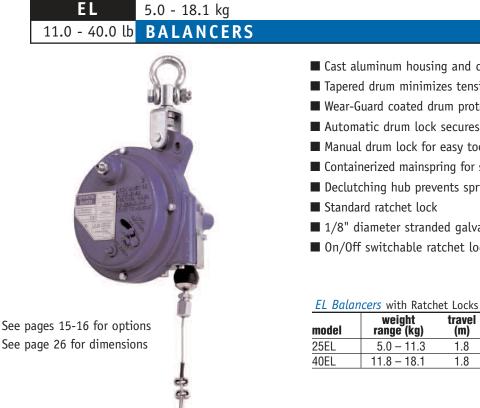
EA 2.3 - 28.0 kg 5.0 - 62.0 lb BALANCERS

- 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

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

FA 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



- 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
- 1/8" diameter stranded galvanized steel cable
- On/Off switchable ratchet lock

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	

JA 4.0 - 45.0 kg

10.0 - 100.0 lb **BALANCERS**

- Wear-Guard[®] coated drum protects cable and prevents premature failure
- \blacksquare Quick, easy tool changes with manual drum lock
- Automatic drum lock secures load even if tension drops
- \blacksquare Containerized mainspring for safe, easy handling
- \blacksquare 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
- \blacksquare 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

KA 36.0 - 110.0 kg 80.0 - 243.0 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 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

KA Balancers

■ 3/16" diameter stranded galvanized steel cable

model	weight range (kg)	travel (m)	weight travel range (lb) (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

1

KA Balancers with Extended Cable Travel*

model	weight range (kg)	travel (m)	weight travel range (lb) (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

En Bataneers						
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	

LA Balancers with Extended Cable Travel*

model	weight range (kg)	travel (m)	weight travel range (lb) (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.

See pages 15-16 for options See page 27 for dimensions

1 5 1 5 T 2.3 - 6.8 kg 5.0 - 15.0 lb **TORQUE REELS**



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

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

1515TR Rigid Mount Torque Reel



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

	Cable length		Net weight		Resistance	
Model	m	ft	kg	lb	ohms	
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.

OVERHANG CABLE 0.9 - 10.6 Meters

3.0 - 35.0 Feet

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

	Length	Length	
model	(m)	(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	

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

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

- 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

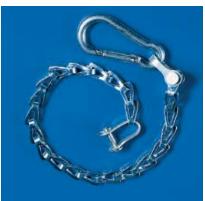
Overhang Cable -

ACCESSORIES

SECONDARY SUPPORT CHAINS AND CABLE

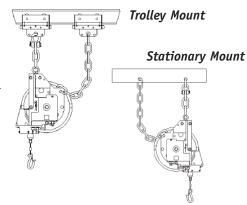
FOR BALANCERS AND TORQUE REELS





- 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.



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*

Length	Length	
(mm)	(in)	Description
508	20	for RF & BF
388	15.25	for RB
	508	508 20

*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

Description
Bullard Type for EA
Bullard Type for JA, KA
Bullard Type for LA (2.1m/7ft)
Bullard Type for LA (2.7m/9ft)
Shackle Type for EA
Shackle Type for JA, KA
Shackle Type for LA (2.1m/7ft)
Shackle Type for LA (2.7m/9ft)

Cable & Low	ver Hook
Model	Description
CBAEB	Bullard Type for EA
CBAEBL	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 Upper Shackle				Upper Mercedes Hook	Upper Bullard Hook
Bottom Hook Assembly	Bottom Tool Clip	Bottom Bullard Hook	Bottom Clamps	Bottom Insulator		
EA	Standard	В	С	I	М	U
EB	Standard	В		I	Μ	U
JA, KA	Standard	В	С	I	М	U
LA	Standard	В	С	I	Μ	U



Shackle Hook



Bullard Hook



BT 3	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 3¹/4" patented rail
- Insulated trolleys are safeguarded from electrical charges, with suspended load electrically insulated from the support beam above

BT 5	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 3¹/4" patented rail

Model	Model Description	
BT34I	Trolley for 4" I-Beam	Polyurethane
BT3PR	Trolley for 3¼" Patented Rail	Polyurethane
BT34IW	Insulated Trolley for 4" I-Beam	Polyurethane
BT3PRW	Insulated Trolley for 3¼" Patented Rail	Polyurethane
BT54I	Trolley for 4" I-Beam	Steel
BT5PR	Trolley for 3¼" 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.

0521100012

BALANCER SERVICE KITS

FOR EA,	EB, JA, KA AND LA			
Model	Description			CBG
CBGE	Cable Guide Assy for EA Balancers			Cable
CBGK	Cable Guide Assy for JA, KA Balancers Guide			Guide
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	STAL		
DRME7	Drum Kit for EA Balancers (2.1m/7ft)		04	
DRMK7	Drum Kit for JA, KA Balancers (2.1m/7ft) Wheel Kit			
DRMK9	Drum Kit for JA, KA Balancers (2.7m/9ft)			0
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		1000	-
SHFL	Shaft Kit for LA Balancers		190	
WRME	Worm Gear Kit for EA Balancers			
WRMJ	Worm Gear Kit for JA, KA Balancers	DRM		2///
WRML	Worm Gear Kit for LA Balancers	Drum		
DSLK	Drop Stop Lever Kit for JA, KA, Balancers	Kit		10
DSAEA	Drop Stop Actuator Kit for EA)0000	9111
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	Surveyore, Surveyor, Street, or other	- 0	ZE
DSAKB	Drop Stop Actuator Kit for 140-160KA/9140-50KA	10		- E
DSAKC	Drop Stop Actuator Kit for 170-200KA	mm	0 🍌	0.1
WRM Worm Gear Kit	SHF Shaft Kit	DLK Drum Lock Kit	DSL Drop Stop Lever Kit	DSA Drop Stop Actuator 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	B
10E	4191200000	1
20E	3165900020	1
30E	3165900030	1
40E	3165900040	1
50E	3165900050	1
60E	3165900060	1
25EL	4191000000	1
40EL	3167200040	
60EL	3167200060	

Balancer	Outer Spring	Inner Spring	Bala
110KA/9110KA	3127600110	3127700110	210
120KA/9120KA	3127600120	3127700120	230
130KA-140KA/9030-40KA	3127600140	3127700140	250
150KA-160KA/9150-60KA	3127600160	3127700160	260
170KA	3127600170	3127700170	280
190KA	3127600190	3127700190	290
192KA & 200KA	3127600200	3127700200	300

Balancer	Spring Assembly
210LA	3139800008
230LA/9230LA	3139800009
250LA	3139800013
260LA	3139800010
280LA	3139800010
290LA	3139800011
300LA	3139800015
330LA	3139800019
350LA	3139800018
370LA	3139800017
9160LA	3139800012
9198LA	3139800006
9200LA	3139800007
9210LA	3139800001



20JA/9020JA	3118400020
30JA/9030JA	3118400030
40JA/9040JA	3118400040
50JA/9050JA	3118400050
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 floormounted 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.

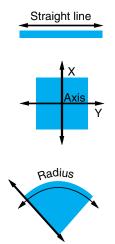
Layout Guidelines

• 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.

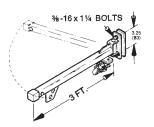
• Consider the type of tool used and how much of the work area the tool must be able to reach.

• 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.

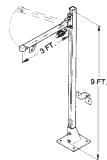


5200 WORKSTATION ASSEMBLIES



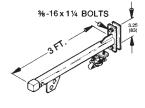
Wall-Mounted 180° Swinging Jib

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" 0.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" 0.D. (Must be used in conjunction with bench)



Radius

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" 0.D.

Straight line



Wall-Mounted 180° Swinging Jib

Model No. 0545200064 Max. Capacity 50 lbs. (22.7 Kg) Total Length 6 ft. (1.8m)

Wall-Mounted Runway

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

Straight line

Double Wall-Mounted

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

Straight line

Radius

Model No. 0544300064

Model No. 0544300069

Runway

With Trolley, Intermediate Car

and End Clamp .49" - 1.25" O.D.

Floor-Mounted

Model No. 0546200064

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

Swinging Jib

With Trolley, Intermediate Cars

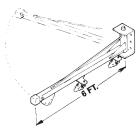
and End Clamp .49" - 1.25" O.D. Radius

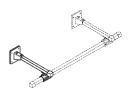
With Trolley,

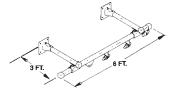
Intermediate Car

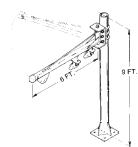
and End Clamp .49" - 1.25" O.D.

Extension

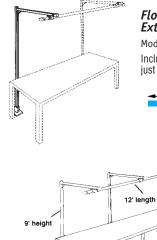








5400 WORKSTATION ASSEMBLIES



n-1-9

9 FT

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

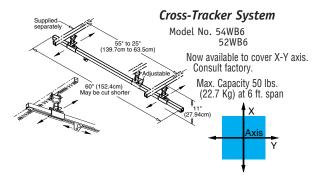
Straight line

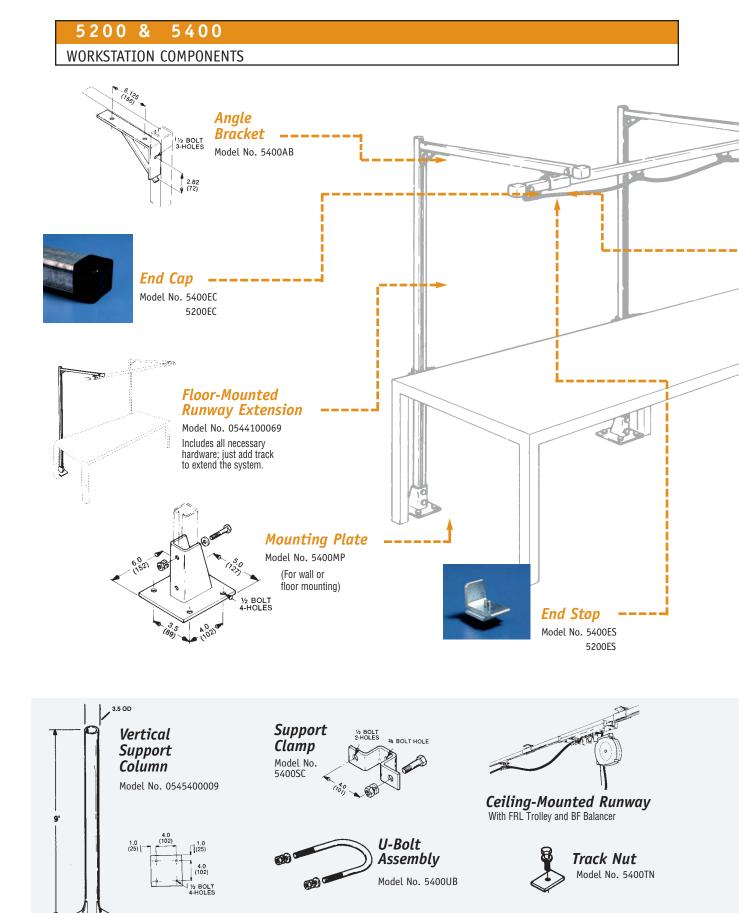
Wall-Mounted Fixed Jib Model No. 0545100064 Max. Capacity 50 lbs. (22.7 Kg) Total Length 6 ft. (1.8m) With Trolley, Intermediate Car and End Clamp .49" - 1.25" 0.D.

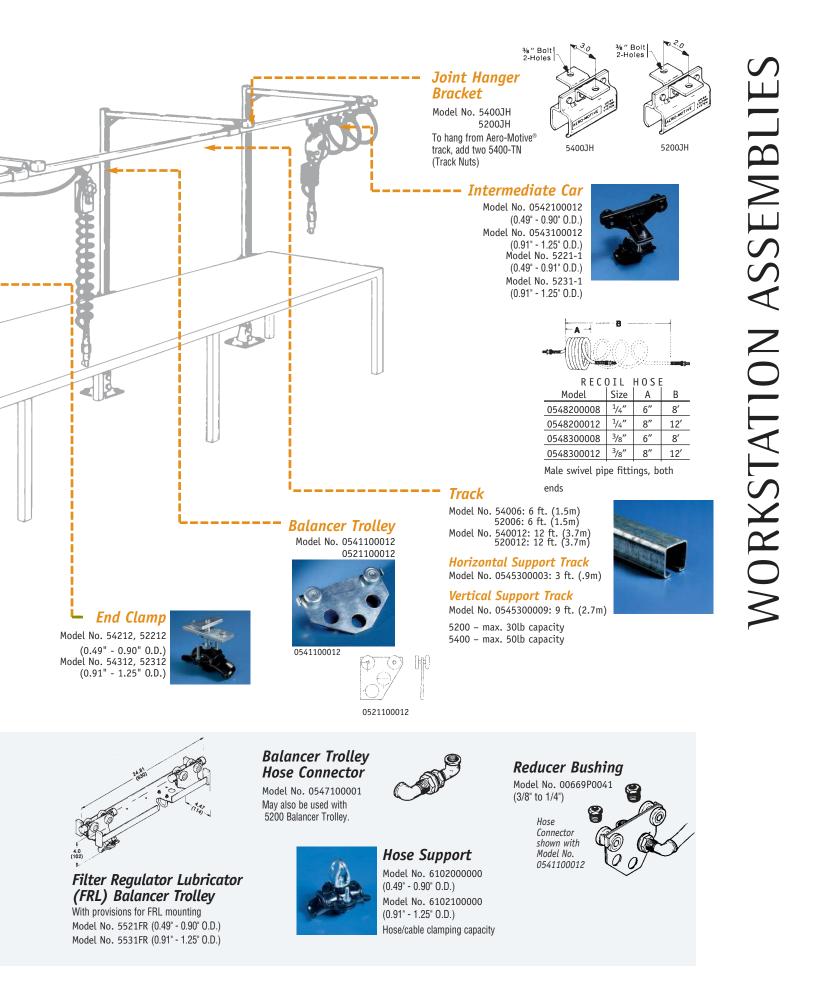
Double Floor-Mounted Runway

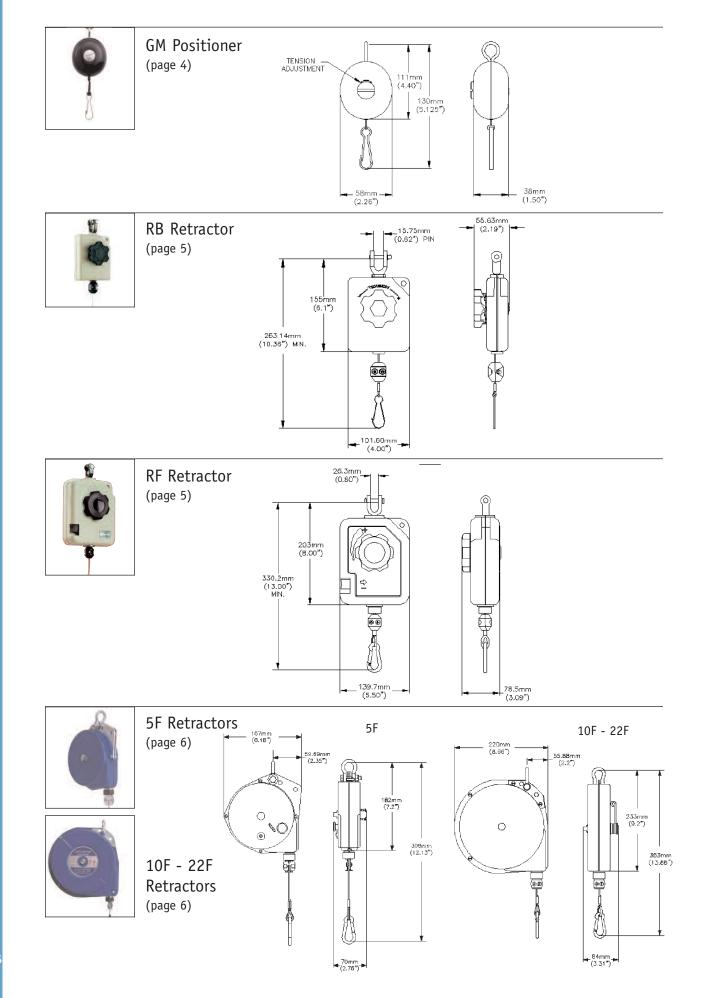
Model No. 0544100064 Max. Capacity 50 lbs. (22.7 Kg) Total Length 6 ft. (1.8m) With Trolley, Intermediate Cars and End Clamp .49" - 1.25" 0.D.

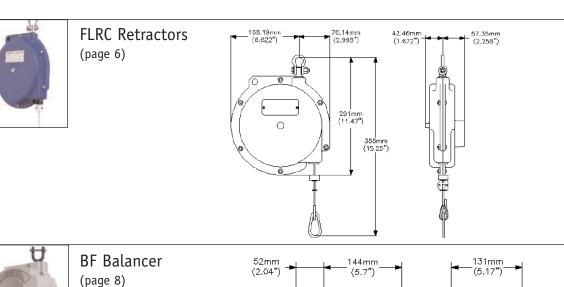
Straight line



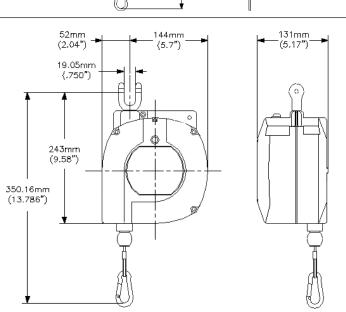






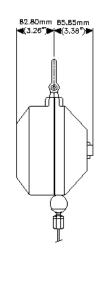


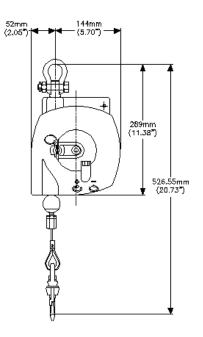


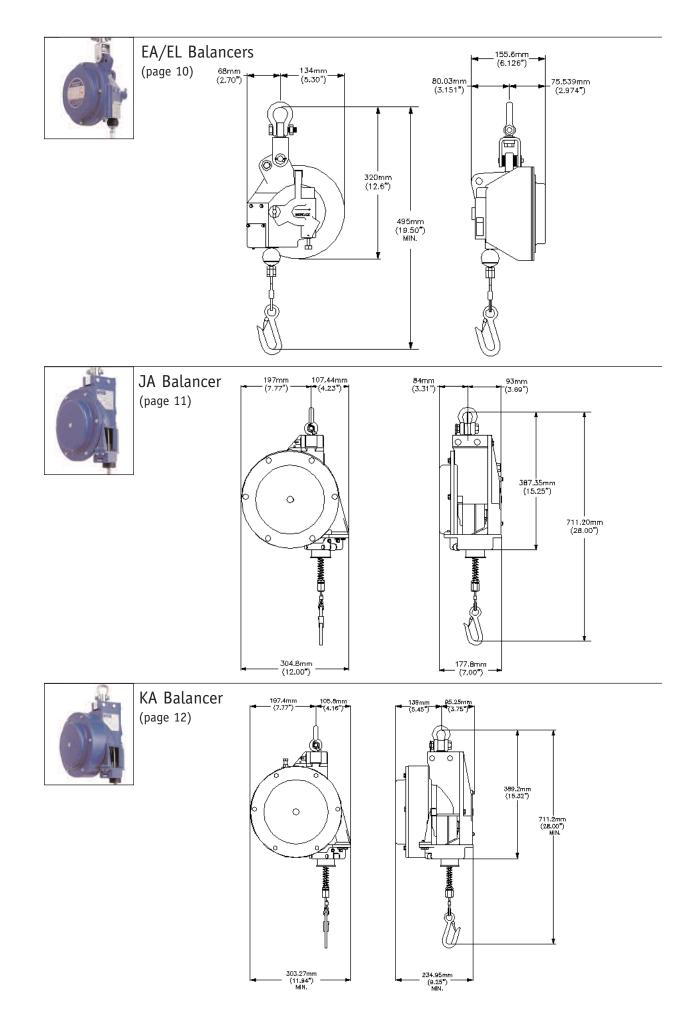


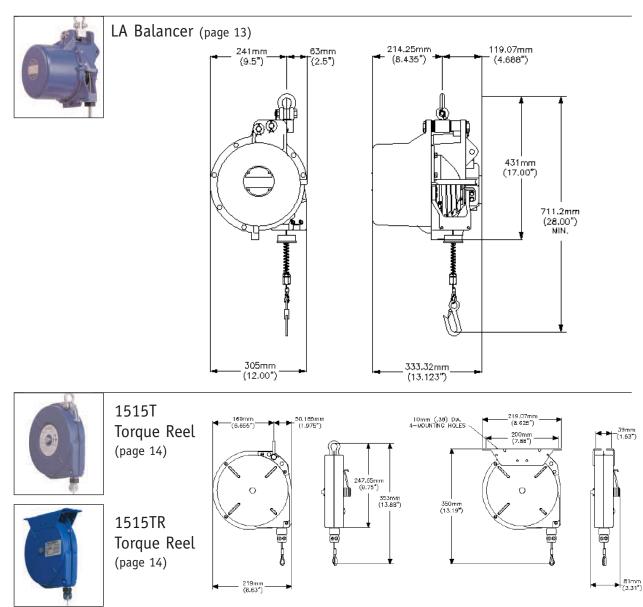


EB Balancer (page 9)



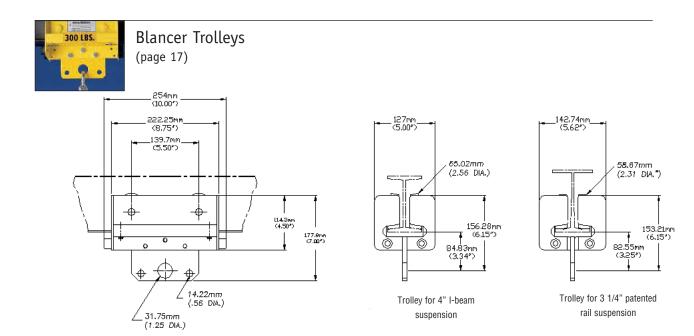




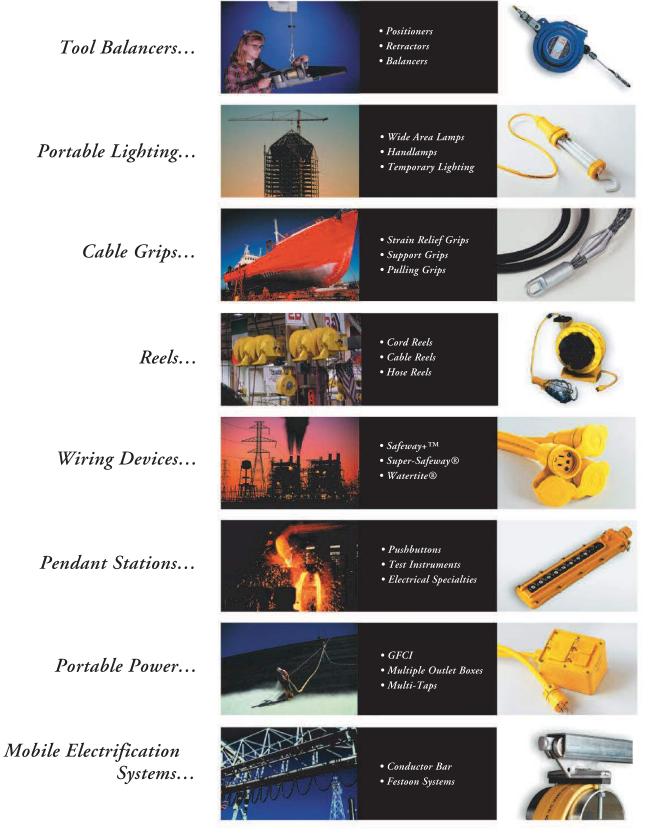


1515T

1515TR



PAGE 27





United States/Mexico Woodhead L.P. 3411 Woodhead Drive Northbrook, IL 60062 800 999 8559 FAX: 800 333 6119 www.woodhead.com Canada Woodhead Canada Limited 1090 Brevik Place Mississauga, Ontario L4W 3Y5 905 624 6518 FAX: 905 624 9151 www.woodhead.ca Europe Woodhead Connectivity Ltd. Factory No. 9 Rassau Industrial Estate Ebbw Vale, Gwent, Wales United Kingdom NP23 5SD +44 1495 356 300 FAX: +44 1495 356 301 sales@wdhd.co.uk Asia

Woodhead Asia Pte. Ltd. No. 4, Toh Tuck Link, Level 3, Mezzanine, Markono Logistics Bldg, SINGAPORE 596 226 +65 6261 6533 FAX: +65 6261 3588 sales.asia@woodhead.com Japan Woodhead Japan Corp. Unit 2-1, Kawashima No. 3 Bldg. 30-2 Imaike-Minami, Chikusa-ku Nagoya, Japan 464-0851 +81 52 745 7621 FAX: +81 52 745 7622

This document is for informational purposes only and is not contractual. Woodhead Industries, Inc. reserves the right to change or discontinue a product and/or the contents of this document without prior notice. All the trademarks contained herein are the property of their respective owners. ©Woodhead L.P. 2005 DWBT PALCP 10M 03/05