



ERGO™ Tool Balancers

Keep workers, tools, and equipment safe



Introduction

Operate safely in the workplace with ERGO. Our ranges help protect against injury, and reduce the risk of damage to equipment.

Air hose balancers used to suspend air hoses workshops and industrial settings, allowing for safe and efficient use of pneumatic tools.

Experience the ERGO difference

- Drum design minimizes hose overlapping for smooth extending/recoiling
- Durable hose material maximizes performance
- Quality spring technology, field-proven on our cable tool balancers
- Rugged, lightweight aluminum case



Reduce Injury



Reduce Fatigue



Clean Workstation

ERGO 1 BD Series

The ERGO 1 is suitable for small drills and equipment weighing up to 5lbs. The choice for a range of simple applications in a variety of industrial locations.

Reliable & Economical Series 'BD'

SERIES 'BD' TOOL BALANCERS are the economical choice for balancing tools weighing up to 5 lbs (2.3kg). Molded ABS housing has a smooth exterior with rounded edges designed for maximum ergonomic appeal. Series "BD" balancers are the most modern, easiest to adjust, and reliable. Each balancer incorporates all of the important functions expected of a world class product.

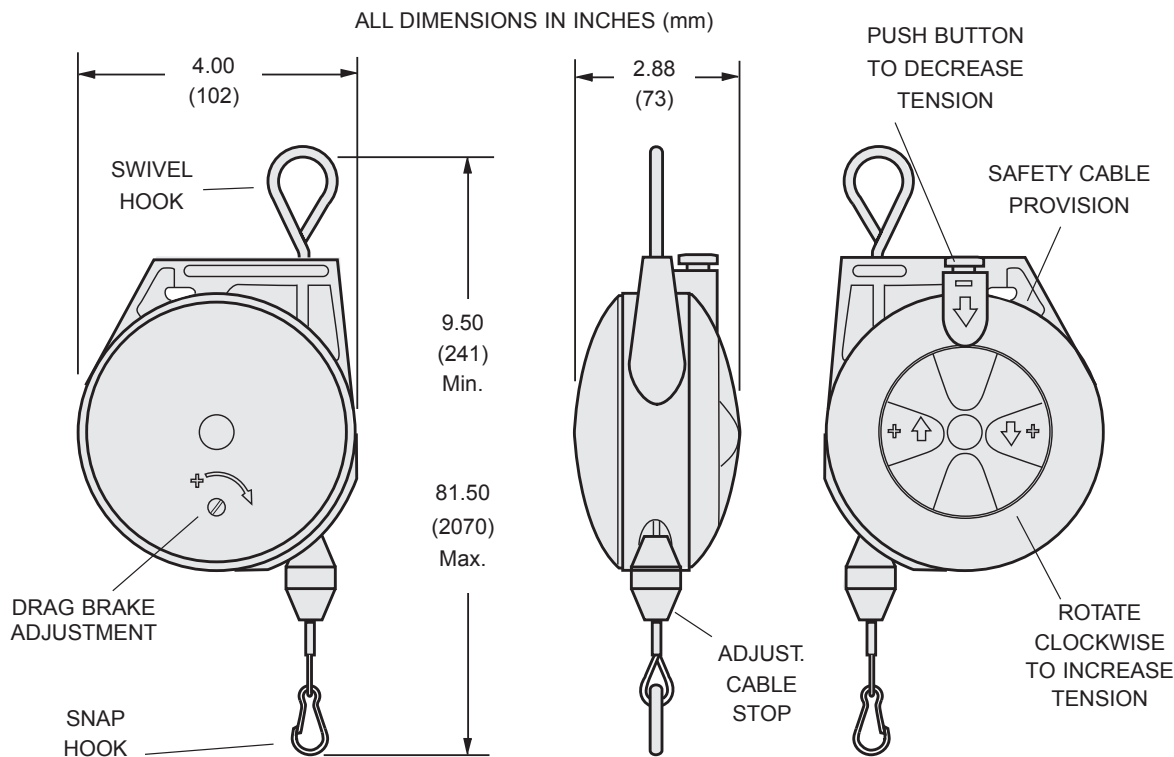


ERGO TOOL BALANCERS

Seven ways better

- 1. Hand-windable spring tension adjustment knob is flush with the housing
- 2. Push-button tension release simplifies decrease of spring tension
- 3. Rugged steel upper swivel hook with secondary safety cable provision
- 4. Over-sized cable opening with direct in-line pull to reduce cable wear
- 5. 270 lb (121.5kg) test 0.047" (1.2mm) dia. 7 x 7 strand galvanized steel aircraft cable nylon covered to 0.063" (1.6mm) O.D
- 6. Adjustable cable stop and lower safety hook
- 7. Matte black finish to minimize reflected light and reduce eye strain

Series 'BD' Dimensions



Selection Chart

Min - Max Load lbs. (kg.)	Cable Length* ft. (m.)	Reel Weight lbs. (kg.)	Model Number
0.5 - 1.5 (0.2 - 0.7)	6 (1.8)	1.3 (0.6)	BD-01
1.5 - 3.0 (0.5 - 1.4)	6 (1.8)	1.3 (0.6)	BD-03
3.0 - 5.0 (1.4 - 2.3)	6 (1.8)	1.5 (0.7)	BD-05

*Cable lengths listed are for "active" or "workable" cable. Includes cable stop and safety hook.

ERGO 2 BG Series

Suitable for tools up to 27lbs in weight, it's our heavy duty solution for larger applications that need extra strength.

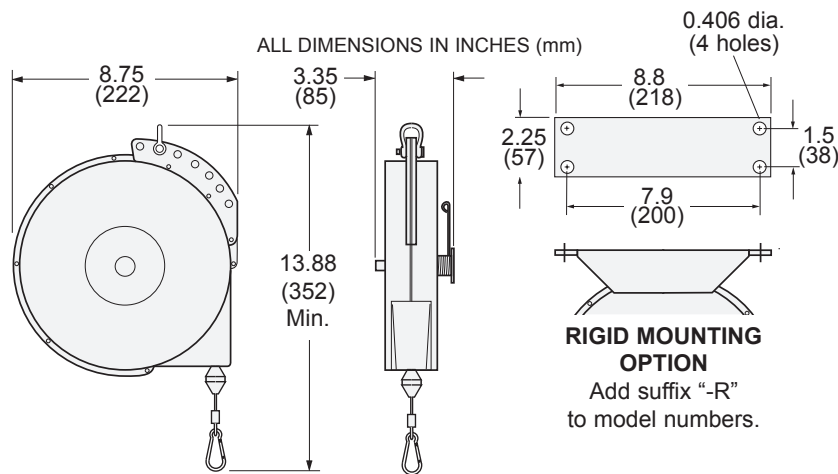
Heavy Duty Series 'BG'

SERIES 'BG' reels feature rugged steel construction with black polyester baked finish, reinforced hanging bracket with forged clevis for ceiling mounting and extra holes for safety chain attachment. Spring is permanently lubricated and provides constant tension, adjustable for balancing tool in normal working zone. Cable is 920 lb. (414kg) test 0.09" (2.3mm) dia. 7 x 7 strand galvanized steel aircraft cable nylon covered to 0.12" (3.0mm) O.D. Includes safety tool clip and adjustable cable stop.

LOCKING MODELS include all features listed above plus a positive ratchet lock mechanism to allow locking of the cable at a specific height. A slight pull on the cable releases the lock which functions like a window shade. Lock feature may be disengaged externally when constant tension is required.



Series 'BG' Dimensions



Selection Chart

Min - Max Load lbs. (kg.)	Cable Length* ft. (m.)	Ratchet Lock	Reel Weight lbs. (kg.)	Model Number
Balancers (CONSTANT PULL REELS). May be adjusted to balance through 6-18 in.(152-457mm) range.				
3 - 7 (1.4 - 3.2)	8 (2.4)	No	6 (2.7)	BG-03
5 - 10 (2.3 - 4.5)	8 (2.4)	No	6 (2.7)	BG-07
8 - 12 (3.6 - 5.4)	8 (2.4)	No	7 (3.2)	BG-10
10 - 15 (4.5 - 6.8)	8 (2.4)	No	8 (3.6)	BG-15
16 - 23 (7.2 - 10.4)	8 (2.4)	No	8 (3.6)	BG-20
16 - 23 (7.2 - 10.4)	8 (2.4)	No	8 (3.6)	BG-20SH**
22 - 27 (9.9 - 12.2)	8 (2.4)	No	8 (3.6)	BG-25

**This note applies to the key under the tables on the next page about cable lengths and Shock Stop.

ERGO 1 & 2 Accessories

Our range of accessories work seamlessly with our ERGO 1&2 models (BH and BG Series).

#STC-01 Safety Clip

Bright zinc plated steel safety latch for tool attachment and other uses. Measures 2.375" (60mm) long. One included with each BG reel. Rated capacity-70 lbs.

Clevis Hangers

Galvanized forged steel hangers for mounting balancers, torque reels, etc. Measure 0.50" (13mm) between jaws. One #CVF-01 straight clevis included with each "BG" & "TQ" reel. #CVF-11 swivel clevis is optional, extra pins included. Rated capacity-500 lbs.

#CVF-01
CLEVIS



#CVF-11
SWIVEL
CLEVIS



Retractors (Ratchet Lock)

Retract tool upward when manually released

3 - 7 (1.4 - 3.2)	8 (2.4)	Yes	6 (2.7)	BG-03-L
5 - 10 (2.3 - 4.5)	8 (2.4)	Yes	6 (2.7)	BG-07-L
8 - 12 (3.6 - 5.4)	8 (2.4)	Yes	7 (3.2)	BG-10-L
10 - 15 (4.5 - 6.8)	8 (2.4)	Yes	8 (3.6)	BG-15-L
16 - 23 (7.2 - 10.4)	8 (2.4)	Yes	8 (3.6)	BG-20-L
16 - 23 (7.2 - 10.4)	8 (2.4)	Yes	8 (3.6)	BG-20-LSH**
22 - 27 (9.9 - 12.2)	8 (2.4)	Yes	8 (3.6)	BG-25

Torque Reels (Ratchet Lock and Longer Cable)

3 - 7 (1.4 - 3.2)	15.0 (4.5)	Yes	8 (3.6)	TQ1507
5 - 10 (2.3 - 4.5)	15.0 (4.5)	Yes	10 (4.5)	TQ1510
8 - 12 (4.5 - 6.8)	15.0 (4.5)	Yes	12 (5.4)	TQ1515

*Cable lengths listed are "active" or "working" cable.

**Includes BG-SH "Shock Stop". See Below.

All models are clevis mount. For rigid mount add "R" to model number.

Adjustable Cable Saddle

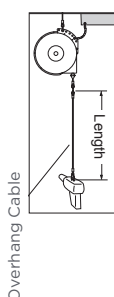
Hangs from balancer cable above tool to provide strain relief for electrical cable or air hose. Available in three sizes. Includes safety clip.



Cable Diameter in. (mm)	Model Number
0.3 - 0.59 (7 - 14)	CS-F1
0.6 - 0.94 (15 - 23)	CS-F2
0.95 - 1.25 (24 - 31)	CS-F3

Overhang Cable

Nylon covered steel cable with safety clip. Brings tool closer to work area without unwinding cable from reel or mounting reel at a lower height.



Length ft. (m)	Model Number
3 (0.9)	OC-03
5 (1.5)	OC-05
10 (3.0)	OC-10
15 (4.6)	OC-15

"Shock Stop" Shock Absorber

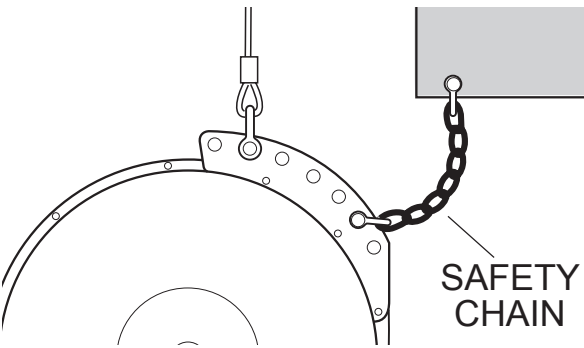
Minimize cable damage often caused by overtensioning tool balancers. "Shock Stop" kit is easily installed. Can be used on any Series BD or BG balancer. Kit includes spring, cable stops, all hardware.



Model Number
BD-SH
BG-SH
NEW!
Now available for BD Series

Safety Cable/Chain

We strongly advise the use of a secondary safety cable alongside the standard installations of our ERGO balancers. These help prevent accidental fall. Safety cable can be attached to the additional holes provided across the ranges. Refer to the table below to choose the correct cable for use with each model of balancer.



Length ft. (m)	Model No
1.0 (0.3)	SC-BD1*
1.0 (0.3)	SC-BG1**
2.0 (0.6)	SC-BG2**
3.0 (0.9)	SC-BG3**

*Nylon covered steel cable.

**Steel link chain.

ERGO 3 BH Series

The largest and strongest of our ranges, the ERGO 3 is suitable for larger balancer applications, for tools and equipment up to 308 lbs.

Tapered Drum Tool Balancers (Accessories)

For tools from 1.1 to 308 pounds

Heavy-duty construction. Tapered drum compensates for changing spring rate. Direct spring powered, no motors or expensive gear trains to break or wear out.

Series “BH” Tapered Drum Tool Balancers keep tools within reach and reduce damage to tools by suspending them out of the way above the work surface. Risk of repetitive motion injury is reduced because only a light, downward force is required to place the tool in proper operating position. As the tool is lowered, and the spring is wound more tightly, the effective drum diameter increases to compensate for the increased force. Thus, when properly adjusted, the tapered drum keeps the tool at the positioned height.

Features include:

- Rugged die cast aluminum housing
- Both top and bottom hooks have spring-loaded safety latches
- Heavy duty steel wire rope
- Automatic safety catch prevents free-spooling if springs fail (not available on BH-02/BH-05)
- Easy adjustment with everyday tools

ERGO TOOL BALANCERS



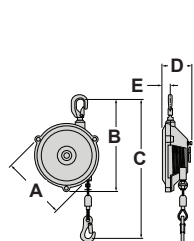
Models "BH-02"
through "BH-05"



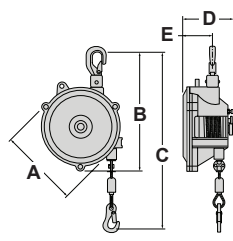
Models "BH-09"
through "BH-70"



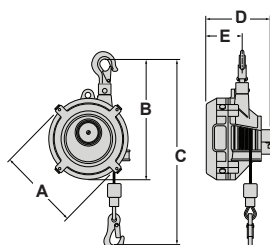
Models "BH-85"
through "BH-140"



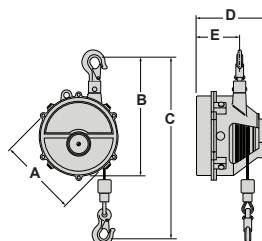
BH-02



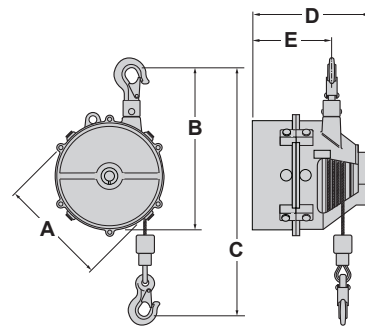
BH-03/BH-05



BH-09/BH-70



BH-85



BH-100/BH-140

Selection Chart

For Tool Weighing*	Cable Travel	Shipping Weight	Model Number
1.1 - 4.4 lbs.	3.3 ft.	2.2 lbs.	BH-02
2.2 - 6.6 lbs.	4.3 ft.	2.8 lbs.	BH-03
5.5 - 11 lbs.	4.3 ft.	3.3 lbs.	BH-05
9 - 20 lbs.	3.9 ft.	13.4 lbs.	BH-09
20 - 33 lbs.	3.9 ft.	13.4 lbs.	BH-15
33 - 48 lbs.	4.5 ft.	22.6 lbs.	BH-22
48 - 66 lbs.	4.5 ft.	22.6 lbs.	BH-30
66 - 88 lbs.	4.5 ft.	27.0 lbs.	BH-40
88 - 110 lbs.	4.5 ft.	27.0 lbs.	BH-50
110 - 132 lbs.	4.5 ft.	31.4 lbs.	BH-60
132 - 154 lbs.	4.5 ft.	31.4 lbs.	BH-70
154 - 187 lbs.	4.5 ft.	58.4 lbs.	BH-85
187 - 220 lbs.	4.5 ft.	56.0 lbs.	BH-100
220 - 264 lbs.	4.5 ft.	60.0 lbs.	BH-120
264 - 308 lbs.	4.5 ft.	61.0 lbs.	BH-140

Dimensional Chart

Model	A	B	C**	D	E
BH-02	5.43 in.	7.28 in.	9.06 in. min.	1.97 in.	0.67 in.
BH-03/BH-05	5.83 in.	7.68 in.	10.71 in. min.	2.72 in.	1.26 in.
BH-09/BH-15	7.09 in.	9.53 in.	13.62 in. min.	5.35 in.	2.83 in.
BH-22/BH-30	8.58 in.	8.70 in.	22.32 in. min.	6.22 in.	3.15 in.
BH-40/BH-70	8.66 in.	12.32 in.	22.32 in. min.	7.40 in.	4.13 in.
BH-85	8.66 in.	12.32 in.	22.32 in. min.	7.83 in.	4.57 in.
BH-100/BH-140	10.89 in.	13.90 in.	24.84 in. min.	10.22 in.	3.63 in.

** Minimum height fully retracted, inside of hook to inside of hook.

Safety Chain (recommended)

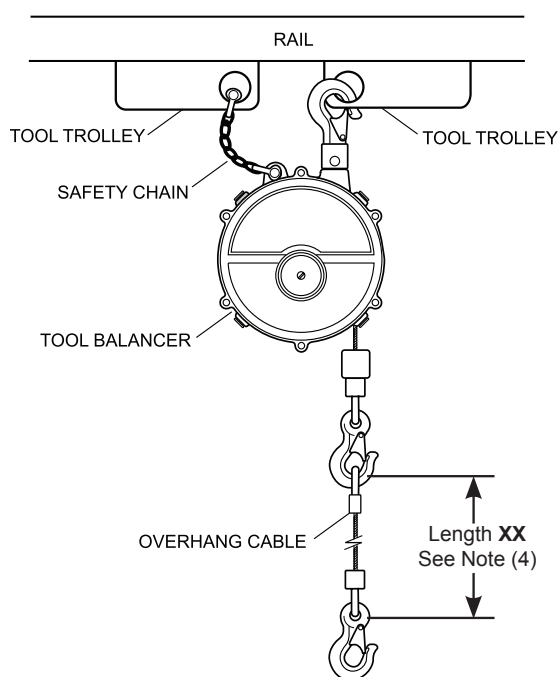
Description	Shipping Weight	Model Number
2.0 ft. Steel Link Chain w/ Clevises	1.5 lbs.	SC-BH2
3.0 ft. Steel Link Chain w/ Clevises	2.0 lbs.	SC-BH3

* Tool weight includes hose or cord and other attachments which must be supported by balancer.

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Accessories For BH Tool Balancers

Series BH Tool Balancer Accessories					
Balancer Model No.	Capacity		Safety Chain	Overhang Cable (4)	Tool Trolley
	Lbs.	(Kg)			
BH-02 (1)	1.1 - 4.4	(0.5 - 2.0)	NONE	OC-XX	WS30-BTL (6)
BH-03 (1)	2.2 - 6.6	(1.0 - 3.0)	SC-BG3	OC-XX	WS30-BTL (6)
BH-05 (1)	5.5 - 11	(2.5 - 5.0)	SC-BG3	OC-XX	WS30-BTL (6)
BH-09 (1)	9 - 20	(4.1 - 9.1)	SC-BG3	OC-XX (5)	WS50-BTL
BH-15 (2)	20 - 33	(9.1 - 15)	SC-BG3	OC-XX (5)	WS50-BTL
BH-22 (2)	33 - 48	(15 - 21.8)	SC-BG3	OC5MB-XX	WS50-BTL
BH-30 (2)	48 - 66	(21.8 - 30.0)	SC-BG3	OC5MB-XX	WS60-BT
BH-40 (2)	66 - 88	(30.0 - 40.0)	SC-BH3	OC5MB-XX	WS60-BT
BH-50 (2)	88 - 110	(40.0 - 50.0)	SC-BH3	OC5MB-XX	WS60-BT
BH-60 (2)	110 - 132	(50.0 - 60.0)	SC-BH3	OC5MB-XX	WS60-BT
BH-70 (2)	132 - 154	(60.0 - 70.0)	SC-BH3	OC5MB-XX	WS60-BT
BH-85 (2)	154 - 187	(70.0 - 85.0)	SC-BH3	OC8MB-XX	WS60-BT
BH-100 (3)	187 - 220	(85.0 - 100.0)	SC-BH3	OC8MB-XX	W6S-BT
BH-120 (3)	220 - 264	(100.0 - 120.0)	SC-BH3	OC8MB-XX	W6S-BT
BH-140 (3)	264 - 308	(120.0 - 140.0)	SC-BH3	OC8MB-XX	W6S-BT



1. Balancer hook will fit WS30-BTL or WS50-BTL Tool Trolley
2. Balancer hook will fit either WS50-BTL, WS60-BT or W6S-BT Tool Trolley
3. Balancer hook will fit only W6S-BT Tool Trolley
4. "XX" = Length req'd. When ordering indicate, -03 = 3 ft., -05 = 5 ft. or -10 = 10 ft
5. Use with BH-09 or BH-15 requires one additional STC-01 Safety Clip
6. WS50-BTL may also be used with BH-02, BH-03 and BH-05

ERGO TOOL BALANCERS

Repair Parts for BH Tool Balancers

BH-09 - 70 Balancers	
Model Number	Description
BH09-SPG	SPRING FOR BH-09
BH15-SPG	SPRING FOR BH-15
BH22-SPG	SPRING FOR BH-22
BH30-SPG	SPRING FOR BH-30
BH40-SPG	SPRING FOR BH-40
BH50-SPG	SPRING FOR BH-50
BH60-SPG	SPRING FOR BH-60
BH70-SPG	SPRING FOR BH-70
BH915-CBL	CABLE FOR BH-09 & BH-15
BH2270-CBL	CABLE FOR BH-22 THRU BH-70
BH915-DRM	DRUM FOR BH-09 & BH-15
BH2270-DRM	DRUM FOR BH-22THRU BH-70

BH-02 - 05 Balancers	
Model Number	Description
BH02-SPG	SPRING W/DRUM FOR BH-02
BH03-SPG	SPRING W/DRUM FOR BH-03
BH05-SPG	SPRING W/DRUM FOR BH-05
BH02-CBL	CABLE FOR BH-02
BH03-CBL	CABLE FOR BH-03
BH05-CBL	CABLE FOR BH-05

BH85 - BH140 Balancers	
Model Number	Description
BH85-SPG	SPRING FOR BH-85
BH100-SPG	SPRING FOR BH-100
BH120-SPG	SPRING FOR BH-120
BH140-SPG	SPRING FOR BH-140
BH85140-DRM	DRUM W/CABLE FOR BH-85 THRU BH-140

ERGO 4 BT Series

Maximize work desk space and keep air tools safely contained with the ERGO 4 BT Series. Our air hose balancer is suitable for air tools up to 11 lbs in weight.

Hang your air powered tools directly from the hose with the ERGO 4 hose balancer. It suspends the tool and supplies the air, reducing operator fatigue, improving workplace safety, and reducing tool breakage.

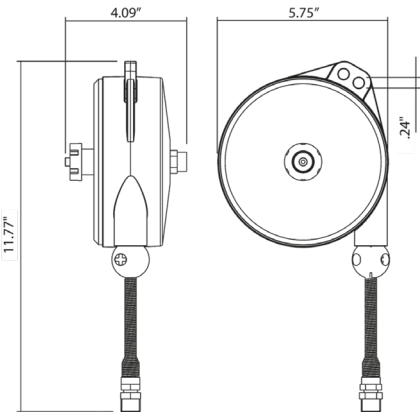
The balancer suspends the tool directly over the workstation. It easily adjusts to make the tool seem near-weightless when pulled down to the task at hand, then lifts it and the hose up out of way for stand-by or storage. At the desired height, the balanced tool won't drift up or down.

Benefits

- **Reduce injury:** Lessen expensive repetitive motion injuries from heavy tools. See "Selection Chart" for more
- **Reduce worker fatigue:** Adjusting the tool to virtually weightless supports worker precision and efficiency
- **Clean up workstation:** Lifting the tool out of the way provides easy access and keeps the air line from being a trip hazard
- **Save money on tools:** Tethering to the workstation prevents tool from getting dropped, broken, lost, or stolen, reducing replacements
- **Reduce air line replacements:** Extend air line life by eliminating damage from being dragged around, tripped on, or driven over



Dimensional Drawings



Selection Chart

Min - Max Load		Cable Length		Balancer Weight		Model Number
Lbs	(KG)	FT	M	Lbs	(KG)	
0.9-1.75	(0.4-0.8)	4.4	(1350)	2.75	(1.25)	BT-9200
1.6-3.3	(0.75-1.5)	4.4	(1350)	2.9	(1.3)	BT-9201
2.6- 5.5	(1.2-2.5)	4.4	(1350)	3	(1.35)	BT-9202
6.6-11	(3-5)	2.95	(900)	3.5	(1.6)	BT-9203

Improve workstation safety

Our Tool Balancers help improve workstation safety and promote efficient use, keeping work areas tidy and free from cords. They reduce the strain felt by operators when moving pneumatic tools, making them feel weightless.

The complete Ergo line has your tools covered, no matter how heavy

Model	Application
ERGO 1 BD	Small equipment up to 5lbs
ERGO 2 BG	Tools up to 27lbs
ERGO 3 BH	Equipment up to 308lbs
ERGO 4 BT	Air tools up to 11lbs

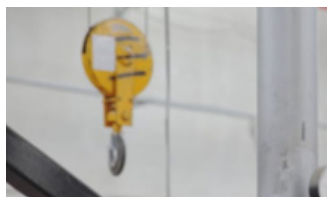


A key part of the ToolAssistPro line

According to the U.S. Bureau of Labor Statistics, 33% of workplace injuries result directly from poor ergonomics. Workplace safety products better fit both tasks and workers, increasing your profitability through productivity and efficiency.

Complete line of material handling and workplace safety solutions

Lower your total ownership cost through ergonomic workstation design, proper equipment, and preventing tools from getting broken or lost. Our solutions include everything you need:



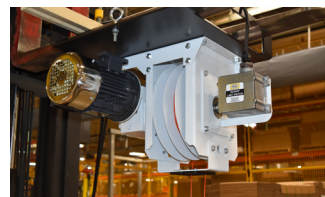
Torque arms



Carts & Workstations



Cranes & Festoons



Cable Reels

Effective material handling and ergonomics pay dividends!

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