

# Spring Balancers



## Spring Balancers

Featuring **gravity-free** effect on intermediate-duty, heavy-duty, and super-duty models to allow users to move tool with minimal effort along cable travel. Experience the effect of tool float.






### Hose Reel Balancers

0.875 to 5.5 lb Capacity

#### Features

- Aluminum body
- Polyurethane hose
- Adjustable capacity
- Adjustable stroke limiting device
- Designed for one-way shutoff operation



					
Model	lb (kg)	ft (m)	lb (kg)	NPT in	cfm
<b>BHR SERIES</b>					
BHR-8	2.57 (1.17)	4-1/4" (1295)	0.9 – 1.7 (0.3 – 0.7)	1/4"	18.4
BHR-15	2.6 (1.2)	4-1/4" (1295)	1.5 – 3.3 (0.6 – 1.5)	1/4"	18.4
BHR-25	2.9 (1.34)	4-1/4" (1295)	2.6 – 5.5 (1.1 – 2.4)	1/4"	18.4




### Light-Duty Balancers

0.9 to 6.6 lb Capacity

#### Features

- Rugged construction, cast aluminum body
- Stainless-steel cable; nylon cable option available for the 2.2 lb (1 kg) capacity model; order BLD1/P for this option
- Adjustable capacity
- Adjustable stroke limiting device
- Cable guide in anti-friction material
- Upper suspension shackle included on balancer for ease of installation



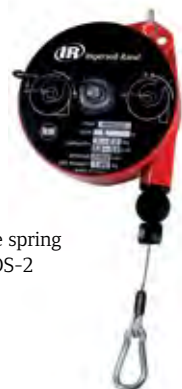
			
Model	lb (kg)	ft (m)	lb (kg)
<b>BLD SERIES</b>			
BLD1	1.3 (0.6)	5.2' (1600)	0.9 – 2.2 (0.4 – 1)
BLD2	1.3 (0.6)	5.2' (1600)	2.2 – 4.4 (1 – 2)
BLD3	1.3 (0.7)	5.2' (1600)	4.4 – 6.6 (2 – 3)




### Medium-Duty Short Cable Balancers

2.2 to 17.6 lb Capacity

#### Features

- Rugged construction, cast aluminum body
- Stainless-steel cable
- Adjustable capacity
- Safety device against load dropping due to the spring breakage (>3 kg); not available on model BMDS-2
- Adjustable stroke limiting device
- Cable guide in anti-friction material
- Upper suspension shackle included on balancer for ease of installation



			
Model	lb (kg)	ft (m)	lb (kg)
<b>BMD SERIES</b>			
BMDS-2	4.4 (2)	6.5' (2000)	2.2 – 5.5 (1 – 2.5)
BMDS-4	4.4 (2)	6.5' (2000)	4.4 – 8.8 (2 – 4)
BMDS-6	5.1 (2.3)	6.5' (2000)	8.8 – 13.2 (4 – 6)
BMDS-8	5.5 (2.5)	6.5' (2000)	13.2 – 17.6 (6 – 8)

SWL = Safe Working Load




## Medium-Duty Long Cable Balancers

4.4 to 30 lb Capacity

### Features

- Rugged construction, cast aluminum body
- Stainless-steel cable
- Adjustable capacity
- Safety device against load dropping due to the spring breakage (>3 kg)
- Adjustable stroke limiting device
- Cable guide in anti-friction material
- Upper suspension shackle included on balancer for ease of installation



			
Model	lb (kg)	ft (m)	lb (kg)
<b>BMDL SERIES</b>			
BMDLN-4	6.4 (2.9)	8.2' (2500)	4.4 – 8.8 (2 – 4)
BMDLN-6	7.1 (3.2)	8.2' (2500)	8.8 – 13.2 (4 – 6)
BMDLN-8	7.7 (3.5)	8.2' (2500)	13.2 – 17.6 (6 – 8)
BMDLN-10	8.2 (3.7)	8.2' (2500)	17.6 – 22 (8 – 10)
BMDLN-12	8.8 (4)	8.2' (2500)	22 – 30 (10 – 13.6)




## Medium-Duty Locking Long Cable Balancers

4.4 to 22 lb Capacity

### Features

- Rugged construction, cast aluminum body
- Stainless-steel cable
- Adjustable capacity
- Safety device against load dropping due to the spring breakage (>3 kg)
- Adjustable stroke limiting device
- Cable guide in anti-friction material
- Equipped with a ratchet locking device to prevent load from retracting when cable is extended
- Upper suspension shackle included on balancer for ease of installation



			
Model	lb (kg)	ft (m)	lb (kg)
<b>BMDLL SERIES</b>			
BMDLLN-4	6.6 (3)	8.2' (2500)	4.4 – 8.8 (2 – 4)
BMDLLN-6	7.3 (3.3)	8.2' (2500)	8.8 – 13.2 (4 – 6)
BMDLLN-8	7.9 (3.6)	8.2' (2500)	13.2 – 17.6 (6 – 8)
BMDLLN-10	8.4 (3.8)	8.2' (2500)	17.6 – 22.0 (8 – 10)




## Intermediate-Duty Balancers

8.8 to 55 lb Capacity

### Features

- Gravity-free suspension capability
- Ribbed and sealed monobloc construction in aluminum alloy
- Stainless-steel cable
- Safety device against load dropping due to the spring breakage (>3 kg)
- Locking device to block the load at any height
- Upper rotary suspension with safety hook
- Adjustable stroke limiting device
- Cable guide in anti-friction material



			
Model	lb (kg)	ft (m)	lb (kg)
<b>BID SERIES</b>			
BIDS-7	5 (2.3)	6.5' (2000)	8.8 – 15.4 (4 – 7)
BIDS-10	5.5 (2.5)	6.5' (2000)	15.4 – 22 (7 – 10)
BIDS-14	5.5 (2.5)	6.5' (2000)	22 – 30.8 (10 – 14)
BIDS-18	6.5 (2.9)	6.5' (2000)	30.8 – 39.6 (14 – 18)
BIDS-22	6.5 (2.9)	6.5' (2000)	39.6 – 48.4 (18 – 22)
BIDS-26	6.5 (2.9)	6.5' (2000)	48.4 – 55 (22 – 25)




## Heavy-Duty Balancers

22 to 143 lb Capacity

### Features

- Gravity-free suspension capability
- Ribbed and sealed monobloc construction in aluminum alloy
- Stainless-steel cable
- Safety device against load dropping due to the spring breakage (>3 kg)
- Upper rotary suspension with safety hook
- Locking device to block the load at any height
- Adjustable stroke limiting device
- Cable guide in anti-friction material



			
Model	lb (kg)	ft (m)	lb (kg)
<b>BHD SERIES</b>			
BHD-15	22.7 (10.3)	6.5' (2000)	22 – 33 (10 – 15)
BHD-20	23.4 (10.6)	6.5' (2000)	33 – 44 (15 – 20)
BHD-25	24.7 (11.2)	6.5' (2000)	44 – 55 (20 – 25)
BHD-30	25.4 (11.5)	6.5' (2000)	55 – 66 (25 – 30)
BHD-35	26 (11.8)	6.5' (2000)	66 – 77 (30 – 35)
BHD-45	27.3 (12.4)	6.5' (2000)	77 – 99 (35 – 45)
BHD-55	27.6 (12.5)	6.5' (2000)	99 – 121 (45 – 55)
BHD-65	30 (13.6)	6.5' (2000)	121 – 143 (55 – 65)

SWL = Safe Working Load





## Super-Duty Balancers

33 to 363 lb Capacity

### Features

- Gravity-free suspension capability
- Ribbed and sealed monobloc construction in aluminum alloy
- Stainless-steel cable
- Safety device against load dropping due to the spring breakage (>3 kg)
- Upper rotary suspension with safety hook
- Locking device to block the load at any height
- Adjustable stroke limiting device
- Cable guide in anti-friction material
- Visible cable for inspection



				
Model	lb (kg)	ft (m)	lb (kg)	Dimension Type
<b>BSD SERIES</b>				
BSD-20	41.9 (18.6)	8.2' (2500)	33 – 44 (15 – 20)	A
BSD-30	43.7 (19.8)	8.2' (2500)	44 – 66 (20 – 30)	A
BSD-40	45.9 (20.8)	8.2' (2500)	66 – 88 (30 – 40)	A
BSD-50	52.7 (23.9)	8.2' (2500)	88 – 110 (40 – 50)	A
BSD-60	56 (25.4)	8.2' (2500)	110 – 132 (50 – 60)	A
BSD-70	59.1 (26.8)	8.2' (2500)	132 – 154 (60 – 70)	B
BSD-80	61.3 (27.8)	8.2' (2500)	154 – 176 (70 – 80)	B
BSD-90	63.5 (28.8)	8.2' (2500)	176 – 198 (80 – 90)	B
BSD-100	78.5 (35.6)	8.2' (2500)	198 – 220 (90 – 100)	C
BSD-120	85.3 (38.8)	8.2' (2500)	220 – 265 (100 – 120)	C
BSD-140	92.2 (41.8)	8.2' (2500)	265 – 309 (120 – 140)	C
BSD-150	98.1 (44.5)	8.2' (2500)	287 – 330 (130 – 150)	C
BSD-165	106.3 (48.2)	8.2' (2500)	330 – 363 (150 – 165)	C





## Super-Duty Long Cable Balancers

33 to 330 lb Capacity

### Features

- Safety device prevents load dropping
- Upper suspension with rotary safety hook
- Precision-guided cable-winding prevents jamming
- Anti-friction cable guide
- Manual locking device for instant clamping or release
- Worm screw capacity adjustment
- Alignable rotating upper hook
- Cable replacement without balancer disassembly
- Cable visible for inspection



				
Model	lb (kg)	ft (m)	lb (kg)	Dimension Type
<b>BSDL SERIES</b>				
BSD-20	42.1 (19.1)	9.8' (3000)	33 – 44 (15 – 20)	A
BSD-25	43.9 (19.9)	9.8' (3000)	44 – 55 (20 – 25)	A
BSD-35	46.1 (20.9)	9.8' (3000)	55 – 77 (25 – 35)	A
BSD-45	52.5 (23.8)	9.8' (3000)	77 – 99 (35 – 45)	B
BSD-50	52.7 (23.9)	9.8' (3000)	99 – 110 (40 – 50)	B
BSD-60	55.8 (25.3)	9.8' (3000)	110 – 132 (50 – 60)	B
BSD-70	58.9 (26.7)	9.8' (3000)	132 – 154 (60 – 70)	B
BSD-80	61.7 (28)	9.8' (3000)	154 – 176 (70 – 80)	B
BSD-90	64 (29)	9.8' (3000)	176 – 198 (80 – 90)	B
BSD-100	81.1 (36.8)	9.8' (3000)	198 – 220 (90 – 100)	C
BSD-115	85.3 (38.7)	9.8' (3000)	220 – 254 (100 – 115)	C
BSD-130	88 (39.9)	9.8' (3000)	254 – 286 (115 – 130)	C
BSD-140	94.4 (42.8)	9.8' (3000)	286 – 309 (130 – 140)	C
BSD-150	100.6 (45.6)	9.8' (3000)	309 – 330 (140 – 150)	C

## Balancer Support Systems — Trolleys

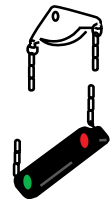
### Spring Balancer Series

Rail Type	Trolley Model		
	Intermediate-Duty	Heavy-Duty	Super-Duty
ZRA1	ZHS30304	ZHS30313	ZHS30313
ZRA2	30923	ZHS30314	ZHS30314
ZRS2/3	30842	ZHS30315	ZHS30315
I-Beam	PT005-8	PT005-8	PT005-8

## Balancer Accessories

### Floor-Controlled Locking Device

A floor-controlled locking device is available, making it easier to change suspended loads without tension adjustment. The simplicity of this device will minimize downtime when changing a suspended load for a given balancer. Once installed, turn the handle toward red to lock the drum. After load is changed, turn handle toward green to unlock the drum.

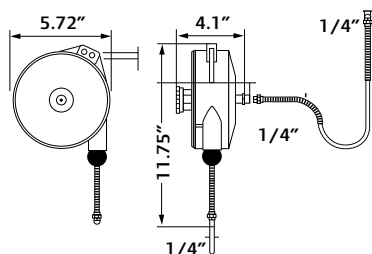
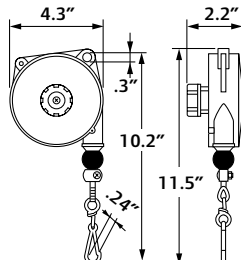
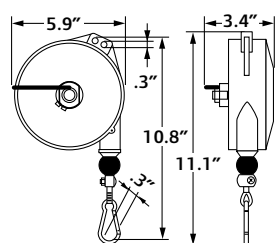
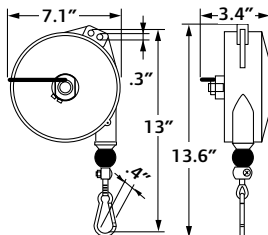
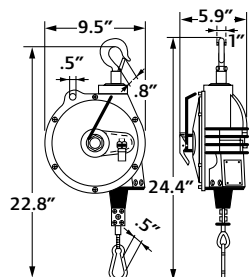
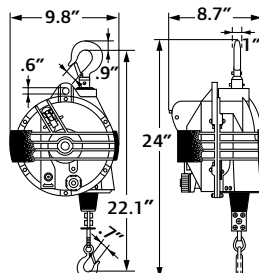


Model	Used With
BIL-7343	Heavy-duty (BHD)
BIL-3224	Super-duty (BSD & BSDL)

SWL = Safe Working Load



## Dimensional Info

**BHR Series**

**BLD Series**

**BMD Series**

**BMDLN / BMDLLN Series**

**BIDS Series**

**BHD Series**

**BSD Series**
