

## How to select a spring balancer:

### Consider all items that are being supported.

The tool is not the only weight you should consider. Accessories such as drill bits, sockets, hoses, cables, connectors, etc. will add weight.

**Example:** For a 14.35 lb. heavy duty industrial impact wrench, based on the following capacities:

Intermediate	Capacity lbs (kg)	Lift ft (mm)
BIDS-7	8.8 - 15.4 (4 - 7)	6.5 (2000)
BIDS-10	15.4 - 22 (7 - 10)	6.5 (2000)
BIDS-14	22 - 30.8 (10 - 14)	6.5 (2000)
BIDS-18	30.8 - 39.6 (14 - 18)	6.5 (2000)

You should choose a BIDS-10 because it will allow for approximately 2 lbs of extra weight added by accessories. If you chose the BIDS-7, you would put yourself at risk of over-loading the balancer beyond its maximum capacity.

**PLEASE NOTE:** for superior performance and to achieve the "gravity-free" effect, the total suspended load (tool + accessories) should be towards the upper range of the load capacity.



## Frequently Asked Questions:

### Besides weight, what else should I consider when choosing a balancer?

Analyze the area you will be working in and decide what lift length you need. Our balancers come in lengths of 4.25-9.85 ft.

### How exactly should my balancer be suspended?

Use the safety chain included with each balancer so there are two points of attachment from the balancer. Hang the balancer vertically over the work space so it is not pulled at an angle, avoiding "yarding." Hanging a balancer at an angle will apply unnecessary strain to the cable.

### Why isn't my tool achieving the "gravity-free" effect?

"Gravity-free" is best achieved when the load is towards the upper capacity range. If this is not the case, add weight to the fixture or tool or consider using the next smallest version within the series that will put the total weight towards the upper capacity range.

### Why is my balancer locking up?

The safety mechanism may have sensed a broken spring or cable, simulating a dropped load. This sudden acceleration of the drum activates the safety mechanism, locking the drum. This may also occur if the weight is too light.

### How do I unlock my balancer?

Hang the weight, tighten and readjust the spring tension. Never unlock the balancer with the cable extended or not attached to the load. The cable could rewind at an uncontrolled speed causing injury.

### When is it time to replace my cable?

When the cable is starting to fray, it is time to contact your distributor for Ingersoll Rand spring balancer accessories to replace your old cable.



Ingersoll Rand Industrial Technologies provides products, services, and solutions to enhance the efficiency and productivity of our commercial, industrial, and process customers. Our innovative products include air compressors, air systems components, tools, pumps, material and fluid handling systems and microturbines.

[www.irco.com](http://www.irco.com)

To reorder: (800) 376-TOOL

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## Spring Balancer Line

Safety and Ergonomics are key attributes to a balancer. Ingersoll Rand Spring Balancers offer both through features that provide the benefits.



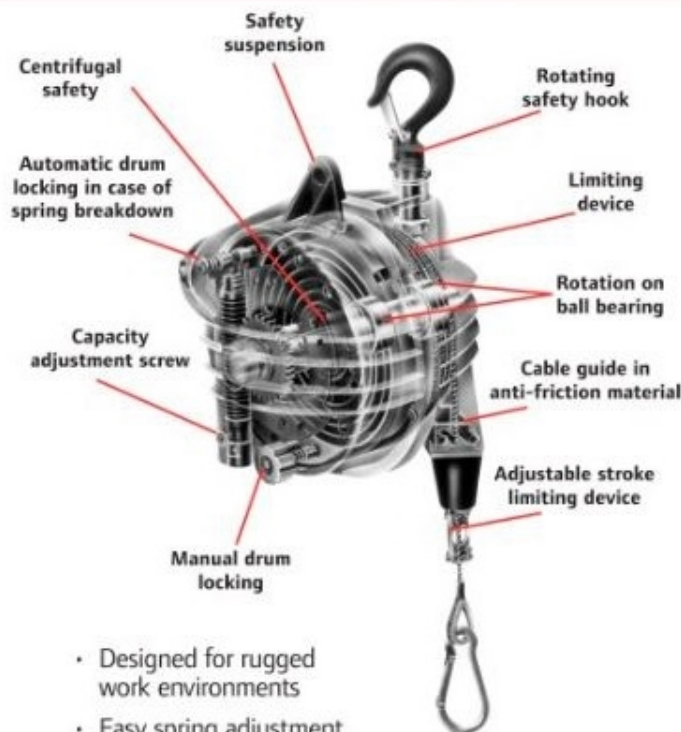
Now Featuring

**"GRAVITY-FREE"**

effect on intermediate, heavy, and super-duty models allows user to move tool with minimal effort!



## Balancer Features








- Designed for rugged work environments
- Easy spring adjustment
- Cable travel ranging from 5 to 9 ft
- Safety locking device in case of spring breakage on medium, intermediate, heavy, and super duty models
- Safety locking device in case of cable breakage on heavy and super duty models
- Made with heavy-duty stainless steel or durable nylon cables
- Supplied safety suspension wire rope harness

### Optimize your productivity with Ingersoll Rand Balancers:

- Reduce worker fatigue
- Extend fixture and tool life
- Increase safety
- Effective use of work space
- Improve accuracy

## Product Offering

Ingersoll Rand Balancer	# of Models	Weight Capacity (lbs)	Lift (ft)
 <b>Hose Reel</b>	3	0.875 - 5.5	4.25
 <b>Light Duty</b>	3	0.9 - 6.6	5.2
 <b>Medium Duty</b>	13	2.2 - 30	6.5, 8.2
 <b>Intermediate Duty</b>	6	8.8 - 55	6.5
 <b>Heavy Duty</b>	8	22 - 143	6.5
 <b>Super Duty</b>	27	33 - 363	8.2, 9.85



Light Duty Nylon Cable Spring Balancer



Medium Duty Nylon Cable Spring Balancer

## "Gravity-Free" Effect

### What?

A balanced state such that minimal effort is required by the user to position the tool at a desired location along the cable travel.

### Where?

Present on 41 of our models, ranging from 8.8 – 363 lb capacities! Our intermediate, heavy, and super-duty models have this feature.

### When?

Ideally used for handling tools larger in capacity due to ergonomic concerns addressed by the National Institute for Occupational Safety and Health (NIOSH). Lighter tools tend to not pose an issue and can be accommodated by retractor style spring balancers.

### Why?

With the expense of worker's compensation on the rise, liability needs to be reduced when dealing with material handling. The "Gravity-Free" effect improves ergonomic handling to reduce worker fatigue and increase workplace safety.

### How?

Achieved when the total suspended load (e.g., tool + its accessories) is adjusted towards the upper capacity range of the given balancer model.