

Air Balancers ENDO Series



CONDUCTIX
wampfler

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General Information - ENDO Air Balancers



In 1979, Wampfler USA became the exclusive USA distributor of quality ENDO products and Conductix-Wampfler continues to market this rugged line of industrial Spring Balancers and Air Hoists. Now we introduce the new line of **ENDO AIR BALANCERS**.

ENDO products are built at their ISO 9001:2008 certified factory in Niigata, Japan. Their stringent quality systems assure that you will get the right balancer or hoist . . . every time!

Conductix-Wampfler is the world leader in the design and manufacture of high-performance spring-driven and air powered devices for industrial applications and proud representative of ENDO balancers and air hoists.

The Air Balancer Advantage!

Air Balancers provide weight lifting capabilities, but much more accurate positioning versus an air hoist. Air Balancers are used for assembly lines where precise load positioning is required.

Safety Load Restraint Features

Condition	Will Hoist Hold the Load? Hoist Module Style:				
	MS	MS-A	MS-AG	ABC-5G-B	ABC-5G-B
If air supply is shut off?	Yes	Yes	Yes	Yes	Yes
If "up-side" control hose is cut or damaged?	Yes	Yes	Yes	Yes	Yes
If "down-side" control hose is cut or damaged?	No	Yes	Yes	Yes	Yes



EHB Series Air Balancer



EHB-85 Body
With MS-A Hoist
Module

High quality, but economically priced, the “EHB” series operates with compressed air to provide both hoist and balancing functions.

- The load on the hook can be balanced at “zero gravity”
- The unit operates with very low noise
- The 0.187” (4.76 mm) dia wire rope provides long life and less maintenance cost
- The non-electric air drive is ideal for facilities that require “hazardous duty” (explosion-proof) equipment

Order Balancer Body and Hoist Module separately.

Balancer Body

Part No.	Air Pressure psi (MPa)	Max. Lifting Cap. lb (kg)	Air inlet	Stroke ft (m)	Unit Wgt lb (kg)
EHB-50	58.0 (0.4)	70.5 (32)	Rc 3/8	6.2 (1.9)	61.7 (28)
	72.5 (0.5)	88.2 (40)	Rc 3/8	6.2 (1.9)	61.7 (28)
	87.0 (0.6)	105.8 (48)	Rc 3/8	6.2 (1.9)	61.7 (28)
	101.5 (0.7)	121.3 (55)	Rc 3/8	6.2 (1.9)	61.7 (28)
EHB-85	58.0 (0.4)	110.2 (50)	Rc 3/8	6.2 (1.9)	63.9 (29)
	72.5 (0.5)	136.7 (62)	Rc 3/8	6.2 (1.9)	63.9 (29)
	87.0 (0.6)	165.3 (75)	Rc 3/8	6.2 (1.9)	63.9 (29)
	101.5 (0.7)	198.4 (90)	Rc 3/8	6.2 (1.9)	63.9 (29)
EHB-130	58.0 (0.4)	176.4 (80)	Rc 3/8	6.2 (1.9)	79.4 (36)
	72.5 (0.5)	220.5 (100)	Rc 3/8	6.2 (1.9)	79.4 (36)
	87.0 (0.6)	264.6 (120)	Rc 3/8	6.2 (1.9)	79.4 (36)
	101.5 (0.7)	308.6 (140)	Rc 3/8	6.2 (1.9)	79.4 (36)



MS



MS-A



MS-AG

Hoist Modules

Hoist Module Model	Features	Unit Wgt lb (kg)
MS	No fall arrest device	4.4 (2.0)
MS-A	With fall arrest device	7.7 (3.5)
MS-AG	With fall arrest device	11.0 (5.0)

Order one or the other separately, if the standard hard-mounted bracket won't fit the application.

Options



Trolley

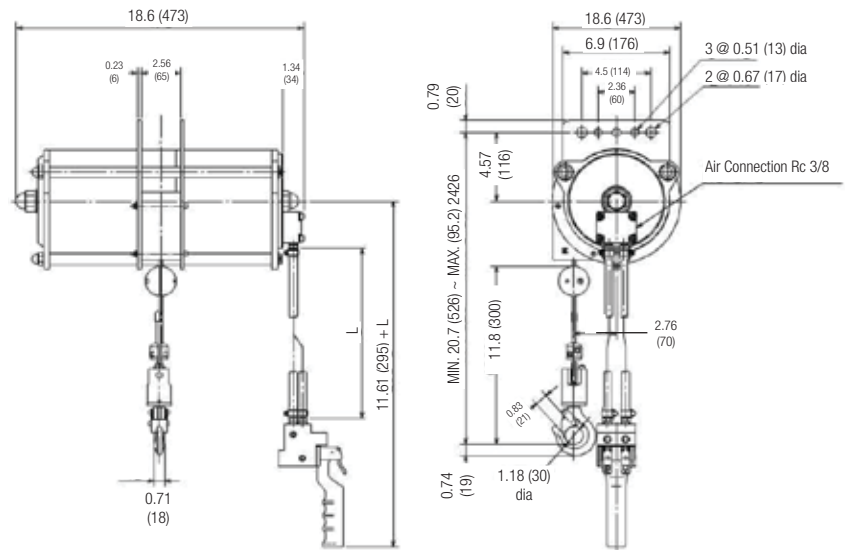


Hook Set

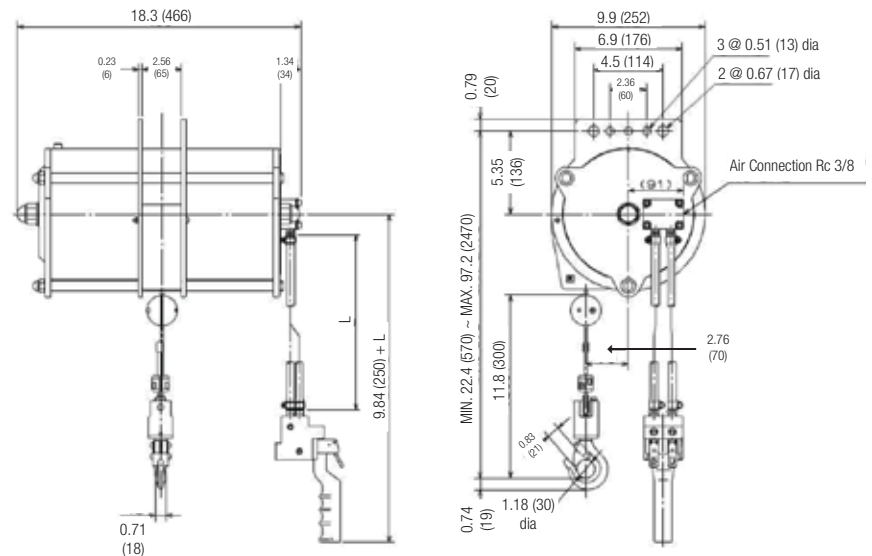
Option	Part No.	Hoist Model
Trolley (for 75mm, 100 mm widths)	LHP001899	-
Upper Hook Set	LHP001900	For MS, MS-A, MS-AG
Upper Hook Set	LHP001991	For MSD, ABC

EHB Series Air Balancer Dimensional Drawings

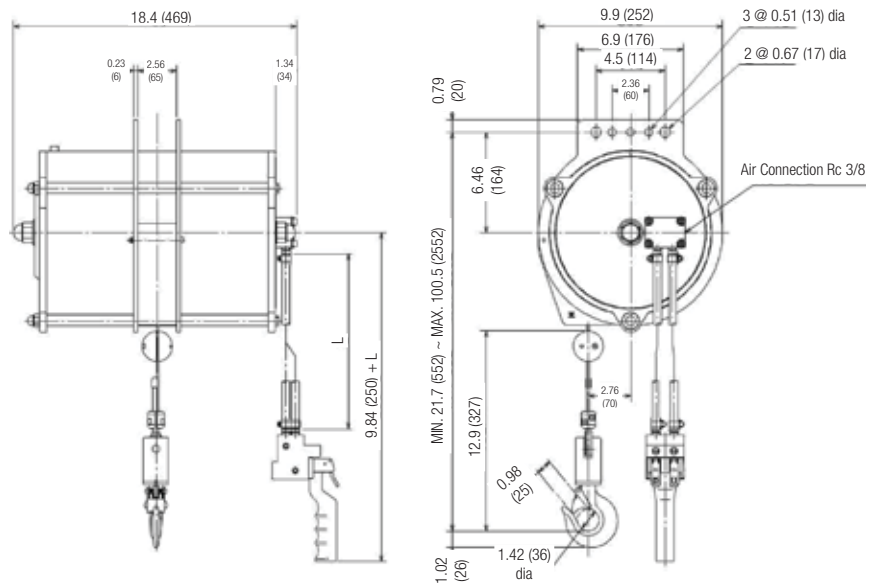
EHB-50 with Hoisting Module



EHB-85 with Hoisting Module



EHB-130 with Hoisting Module



EHB-85D Series Air Balancer with Inertia Braking



Inertia Braking limits the inertia action of the load and provides comfortable operation. Patent and design registration pending.

- No down-drift of the load, even if air shuts off or the hose is cut
- Equipped with retraction control
- “Float mode” is available - which requires a bit more effort than standard mode
- Suitable for precision operation
- Cable diameter: 0.187” (4.76 mm)

Order the balancer body and hoist module separately. For optional balancer body connection methods, see bottom of page 3.

Balancer Body

Part No.	Air Pressure psi (MPa)	Max. lifting Cap. lb (kg)	Stroke ft (m)	Air inlet	Unit Wgt lb (kg)
EHB-85D	58.0 (0.4)	110.2 (50)	6.23 (1.9)	Rc 3/8	83.8 (38)
	72.5 (0.5)	136.7 (62)	6.23 (1.9)	Rc 3/8	83.8 (38)
	87.0 (0.6)	165.3 (75)	6.23 (1.9)	Rc 3/8	83.8 (38)
	101.5 (0.7)	198.4 (90)	6.23 (1.9)	Rc 3/8	83.8 (38)

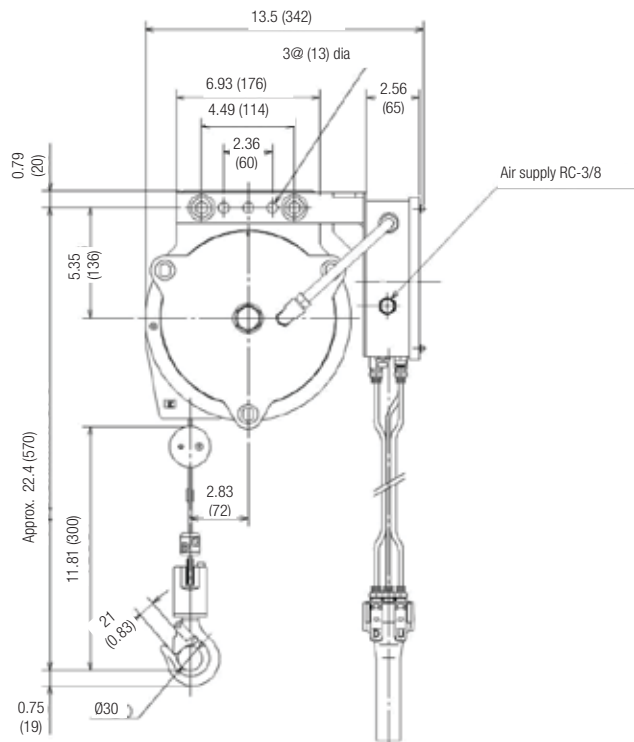
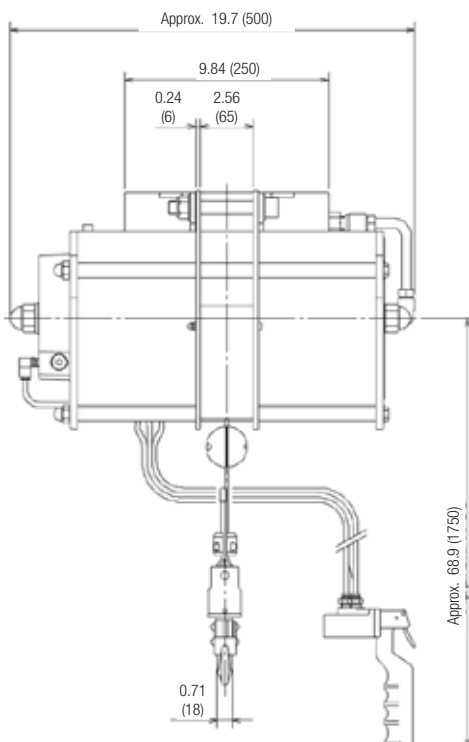
Hoist Module

Part No.	Unit Wgt lb (kg)
MSD	13.2 (6.0)

Optional Grip with Inertia Stopper Release Switch



Inertia stopper release switch



Fully Automatic Air Balancer - Type ABC

“Full Auto” Air Balancers can lift various loads in different weights without any adjustment. They provide fine balancing and positioning by hand operation with an automatic adjustment for weight.

Features

- Fully automatic balancing feature without electricity
- Quiet Operation - low air consumption
- Less maintenance - no lubrication required
- No down-drift of the load even when the air is shut off
- Snap-back prevention
- Optional Hoist Module: ABC-5G-B grip-style or ABC-5P-B pendant style
- Dimensions: 9.92" x 18.35" (252 mm x 466 mm)

Order Balancer Body and Hoist Module separately. For optional balancer body connection methods, see bottom of page 2.



ABC-5G-B Grip Module

Up/down motions are controlled by the handle just above the hook assembly

Balancer Body

Part No.	Air Pressure psi (MPa)	Max. Lifting Cap. lb (kg)	Air inlet	Stroke ft (m)	Unit Wgt lb (kg)
EHB-50	43.5 (0.3)	44.1 (20.0)	Rc 3/8	6.2 (1.9)	86.0 (39)
	58.0 (0.4)	66.1 (30.0)	Rc 3/8	6.2 (1.9)	
	72.5 (0.5)	88.2 (40.0)	Rc 3/8	6.2 (1.9)	
EHB-85	43.5 (0.3)	66.1 (30.0)	Rc 3/8	6.2 (1.9)	88.2 (40)
	58.0 (0.4)	99.2 (45.0)	Rc 3/8	6.2 (1.9)	
	72.5 (0.5)	132.3 (60.0)	Rc 3/8	6.2 (1.9)	
EHB-130	43.5 (0.3)	88.2 (40.0)	Rc 3/8	6.2 (1.9)	103.6 (47)
	58.0 (0.4)	137.8 (62.5)	Rc 3/8	6.2 (1.9)	
	72.5 (0.5)	187.4 (85.0)	Rc 3/8	6.2 (1.9)	

Hoist Modules

Part No.	Style	Unit Weight ft (kg)
ABC-5P-B	Pendant	24.6 (11)
ABC-5G-B	Grip	24.6 (11)

ABC-5P-B Pendant Module

Up/down motions are controlled by the push button pendant



Other Products from Conductix-Wampfler

The products described in this catalog represent a few of the products from the broad spectrum of Conductix-Wampfler components and systems for the transfer of energy, data, gases, and fluids. The solutions we deliver for your applications are based on your specific requirements. In many cases, a combination of several different Conductix-Wampfler products are needed to fill the application. You can count on all of Conductix-Wampfler's business units for hands-on engineering support - coupled with the perfect solution to meet your energy management and control needs.



Motor driven cable reels

Motor driven reels by Conductix-Wampfler are the perfect solution for managing long lengths of heavy cable and hoses in very demanding industrial applications. Monospiral, level wind, and random wind spools.



Slip ring assemblies

Whenever powered machinery needs to rotate 360°, field proven slip ring assemblies by Conductix-Wampfler can flawlessly transfer energy and data. Here, everything revolves around flexibility and reliability.



Conductor bar

Whether they are enclosed conductor rails, expandable single-pole bar systems, or high amperage bar for demanding steel mill use up to 6000 amps. Conductix-Wampfler's conductor bar is the proven solution to reliably move people and material.



Spring driven cable reels

We have 60 years experience and trusted brands such as Insul-8, Wampfler, and IER. We offer small cord reels all the way to large multi-motor units, a wide range of accessories, and hazardous location reels.



Cable Festoon systems

It's hard to imagine Conductix-Wampfler cable trolleys not being used in virtually every industrial application. They are reliable and robust and available in an enormous variety of sizes and models.



Push Button Pendants

Our ergonomic pendants are ideally suited for industrial control applications. They are available in a wide range of configurations for overhead cranes and other machinery.



Radio remote controls

Safe, secure, and reliable radios use the latest in microprocessor technology. Available in several models for overhead crane control and other types of machinery.



Inductive Power Transfer IPT®

The contact-less system for transferring energy and data. For all tasks that depend on high speeds and absolute resistance to wear.



Energy guiding chains

The "Jack of all Trades" when it comes to managing energy and data cables and air and fluid hoses. A wide range of energy guiding chains are available for many industrial applications.



Air hoists and balancers

ENDO Air hoists accurately place delicate loads and continuously vary the speed for precise positioning. They run cool in continuous operations.



Bumpers

Conductix-Wampfler offers a complete range of bumpers for the auto industry, cranes, and heavy machinery. These include rubber, rubber/metal, and cellular types.



Spring balancers and retractors

ENDO spring balancers by Conductix-Wampfler are rugged, reliable high-precision positioning devices that reduce operator fatigue and assist with accurate tool placement.

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