Tandem



Tandem cable / chain pneumatic Balancer Series



TKBA — cable type

Tandem Pneumatic Balancers (Cable / Chain)

Series: TKBA700 / TKBA1000 / TKBA1400 | TKBC700 / TKBC1000 / TKBC1400

Knight Tandem pneumatic balancers are designed primarily for loads above **700 lbs [318 kg]**. The tandem design delivers the capacity of a reeved balancer while retaining the longer stroke of a standard single balancer.

The chain version uses a special grade 80 load chain with a dedicated surface treatment that extends service life by **up to 300%** compared with standard grade 80 chain.

Operating at **80% of rated capacity** is recommended to compensate for fluctuations in plant air pressure. Units are rated at **100 psi [6.8 bar]**.

Example: 60 psi plant air × 350 lbs balancer × 0.80 = **168 lbs** actual working capacity

Model Numbers — Cable Series (TKBA): TKBA700-073 | TKBA1000-080 | TKBA1400-054

Model Numbers — Chain Series (TKBC): TKBC700-067 | TKBC1000-080 | TKBC1400-052

Features & benefits

Features

- CE Compliant
- Two versions: Cable or Chain
- Hands-Free Operation
- "Float" mode as standard
- Internal centrifugal retract control
- Requires clean, dry, non-lubricated air
- Max. balancing load: up to **1,400 lbs [635 kg]**
- Standard stroke: up to **80 in [2,032 mm]**

Benefits & options

- Optional External Retract control
- Optional Limit Switch
- Wide range of compatible Suspension Kits
- Easy integration with Knight RAD4110/6110/7510 aluminum rail
- Specially treated grade 80 load chain — 300% longer service life
- Suited to heavy-duty, continuous-load industrial environments

Tandem Cable Balancers — TKBA Series

Model No.	Rated Load		Max. Stroke	
lbs	kg	in.	mm	
TKBA700-073	700	318	73	1,854
TKBA1000-080	1,000	454	80	2,032
TKBA1400-054	1,400	635	54	1,371

Tandem Chain Balancers — TKBC Series

Model No.	Rated Load		Max. Stroke	
lbs	kg	in.	mm	
TKBC700-067	700	318	67	1,701

Model No.	Rated Load		Max. Stroke	
TKBC1000-080	1,000	454	80	2,032
TKBC1400-052	1,400	635	52	1,320

General accessories



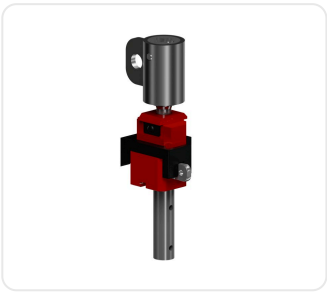
Precision Chain Wear Gauge for 4 mm & 5 mm chain KSAA1003 0.87 lbs [0.39 kg] Gauge



Safety Chain Shackle 360° swivel BPA2410 2.7 lbs [1.23 kg] 360°



Balancer Chain Hook Crosby® Bullard self-closing BPA2113 2.4 lbs [1.08 kg] Hook



Quick Connect / Disconnect quick-release coupling BPA2035 4.8 lbs [2.22 kg] 700 lbs

Load trolley



Load Trolley — RAD7510 Rail Max. load 3,000 lbs [1,360 kg] MRTA7706 9 lbs [4.08 kg] RAD7510



Load Trolley — RAD6110 Rail Max. load 1,600 lbs [725 kg] MRTA6106 6 lbs [2.72 kg] RAD6110



Load Trolley — RAD4110 Rail Max. load 1,100 lbs [499 kg] MRTA4442 5 lbs [2.26 kg] RAD4110



Load Trolley — TR2000 Rail Max. load 550 lbs [250 kg] TRT2001 2 lbs [0.90 kg] TR2000

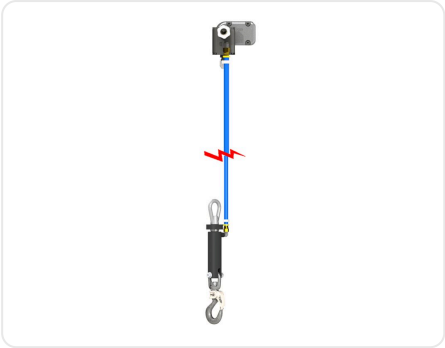


W / I-Beam Trolley Max. load 3,000 lbs [1,360 kg] RTA2013 23 lbs [10.4 kg] W-Beam · I-Beam

Pneumatic controls



Single Control Module Ideal for torque tools BCS2018 2.2 lbs [0.99 kg] 150 lbs



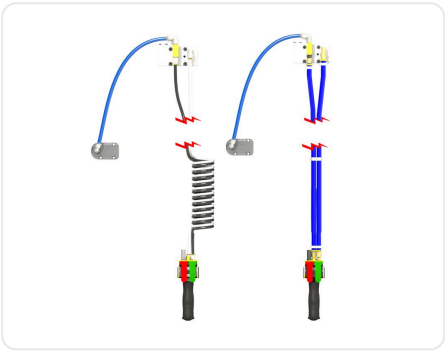
High Relieving Module 2090: ≤250 lbs / 2322: ≤500 lbs BCS2090 / BCS2322 10 ft [3 m] straight hose Heavy



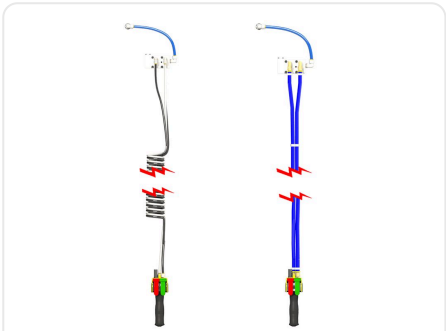
Feather-Touch Control Handle Horizontal / vertical handle BCS2213 / BCS2214 12.4 lbs [5.64 kg] 100 lbs



Dual Control Handle Two zero-gravity load settings BCS2215 / BCS2323 10.2 lbs [4.63 kg] Dual



Tandem Up/Down Pendant Dedicated to Tandem balancers BCS2326 / BCS3330 Coiled / straight hose Tandem

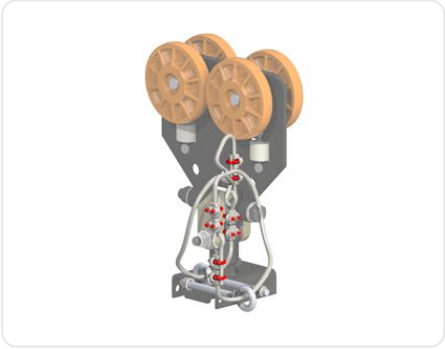


Up/Down Pendant + Manifold Kit 10 ft [3 m] straight / coiled hose BCS3017 / BCS3320 2 control buttons Standard

Safety cable kits



Standard Safety Cable 4 Crosby® clips + 2 thimbles RWA4133 6 ft [1.8 m] / 6 mm Standard



Eye Bolt Safety Cable eye bolt mounting kit FDA4133 10 ft [3 m] / 6 mm Eye Bolt



Oval Sleeve Safety Cable 2 oval copper sleeves + 2 thimbles NICORWA4133 2 lbs [0.91 kg] Oval

Technical documents

Catalogue (Brochure)

- Knight Global Pneumatic Balancer Brochure PDF

Spec sheet & CAD drawings

- TKBA Spec Sheet — Tandem Cable PDF
- TKBC Spec Sheet — Tandem Chain PDF

- CAD Drawings TKBA Series (.zip) ZIP
- CAD Drawings TKBC Series (.zip) ZIP

Operation & troubleshooting manuals

- Balancer Operation Manual 2019 (English) PDF
- Balancer Troubleshooting Guide 2021 PDF
- Air Balancer Troubleshooting Guide 2017 PDF
- Balancer Periodic Inspection Form PDF

Installation & connection guides

- Air Connection Diagram — Balancer Logic Box PDF
- Air Connection Diagram — Manifold PDF
- Safety Cable Installation Guide — Eye Bolt PDF
- Safety Cable Installation Guide — Trolley / Hanger PDF
- External Safety Retract Control Information PDF

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Authorized distributor of Knight Global pneumatic balancers and lifting equipment in Vietnam
For advice on the right TKBA/TKBC configuration for your project, please contact a FULLSHARP representative for a quotation and detailed design drawings.

Contact us for consultation and a quotation

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Specifications may vary with the ordered configuration. Please contact FullSharp for exact details.