



## AUTOSTAT counterweights (balancers) and spring balancers (retrievers)

For a wide range of uses in industry and trade

„The ultimate solution has a name: AUTOSTAT!“

When it comes to handling tools, equipment or auxiliary devices, AUTOSTAT series devices are unsurpassed. These devices successfully rise to every challenge – even under the most difficult conditions.

### Spring balance (retractor)

Spring balances are designed so that the retraction force increases as more and more rope is pulled out. The workload is thus returned to its initial position after use by the spring balance. This keeps the workstation clear for other tools or devices. The extremely flat increase in the spring force ensures precise work.

### Counterweights (balancers)

The characteristic feature of AUTOSTAT counterweights is their conical cable drum. This produces an almost uniform retraction force across the entire cable extraction. The result is that once the suspended load has been inserted, the position is retained. Furthermore, no increase in the retraction force is observed, particularly for extremely precise and sensitive work. Using Autostat counterweights facilitates effortless work, even over longer periods of time.

### Automatic lock

The automatic lock causes early retraction stops at predetermined positions. It is activated by retracting the workload slowly. If the work load is returned quickly, the lock does not engage. This significantly improves work ergonomics for some applications, for example, if you do not wish to return the attached load to the initial position between different work steps. The automatic lock is available for different spring balances and counterweights. Please refer to the corresponding product descriptions.

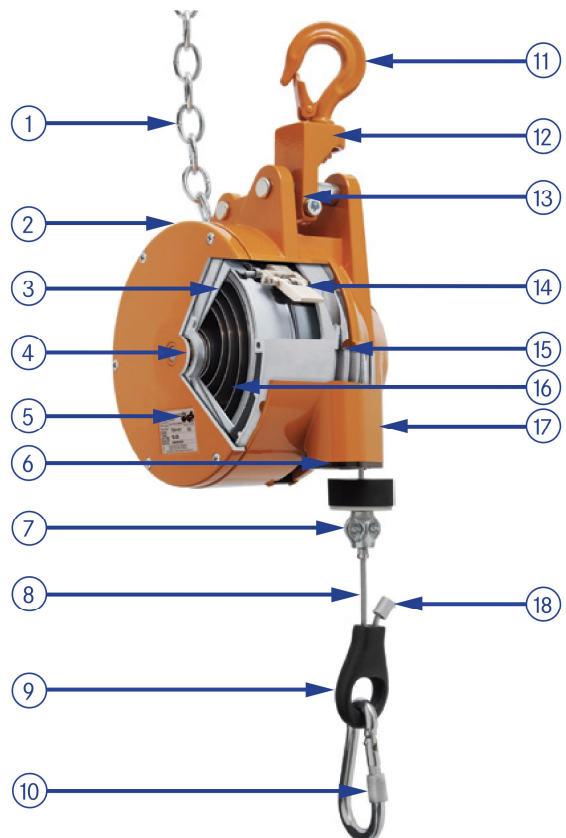
### Patented freewheel

Our patented freewheel is a control guard against incorrect operation for counterweights of types 7241, 7248, 7251 and 7261. The freewheel prevents undesirable spring fractures when the spring is relaxed. It is now impossible for the device to relax too far, and this is no longer transferred to the spring. This prevents unintentional incorrect operation and significantly increases service life. This device is integrated as standard in all our devices in model series 7241, 7248, 7251 and 7261.“

### Advantages at a glance:

- Trouble-free workflow
- Effortless work
- Less wear on personnel and machines
- Extremely high operational safety
- Extremely easy maintenance
- Very high durability
- Fast procurement channels
- Continuous further development of our product range
- Local point of contact

- ① Safety chain as separate fall protection device
- ② High-strength aluminium alloy or impact-resistant plastic
- ③ Strapped or riveted suspension spring
- ④ Double ball bearing cable drum
- ⑤ GS mark, 5-fold safety factor throughout
- ⑥ Cable guide nozzle
- ⑦ Adjustable cable retraction limit
- ⑧ Twist-resistant cable
- ⑨ Cable clamp for infinite adjustment of cable length
- ⑩ High-quality screw-on snap hook
- ⑪ High-strength forged hook
- ⑫ Ball bearing suspension
- ⑬ Infinitely adjustable suspension to prevent wear
- ⑭ Protection against spring fracture as standard from 3 kg load capacity
- ⑮ Patented over-twist safeguard on the suspension spring
- ⑯ High-strength special suspension spring
- ⑰ Easy and safe load adjustment
- ⑱ Free cable end for extending cable – special lengths on request





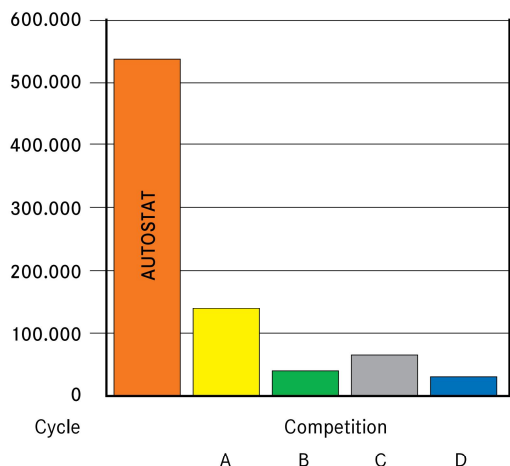
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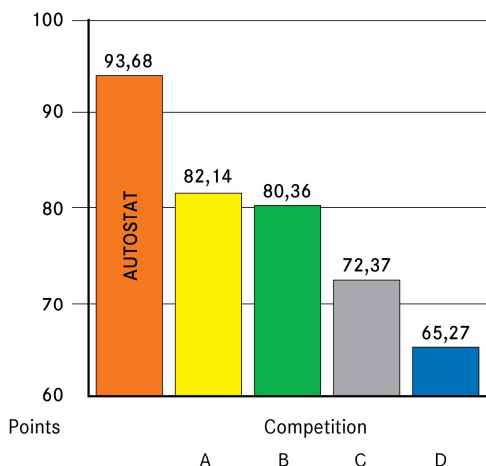
### Unmatched performance

A neutral product comparison test was conducted at the University of Esslingen during research for a thesis. AUTOSTAT spring balances and balancers lead the field by a long way – why settle for less?

#### Evaluation of the service life until failure due to fatigue occurs:



#### Overall evaluation:



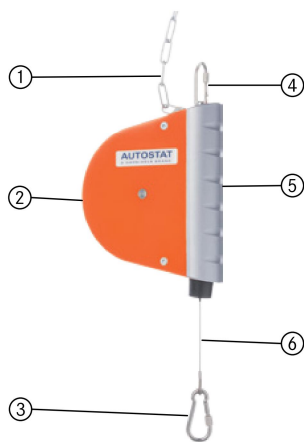
#### Evaluation criteria:

- Load-carrying range
- Pulling diagram
- Life
- Cable extraction
- Safety options
- Service life of cable / drum
- Life of the spring
- Availability of spare parts
- Delivery time
- Repair friendliness
- Materials used
- Product documentation
- Scope of delivery



## AUTOSTAT rustproof design of spring balances and counterweights

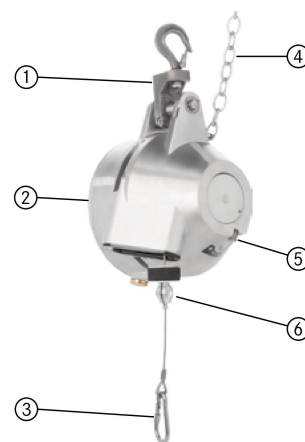
HAHN+KOLB has expanded its range for the food industry with handling systems and offers versions made entirely of rustproof material with the AUTOSTAT spring balances and counterweights (balancers). whereas aggressive cleaning agents and high-pressure cleaners for disinfection – for example in the meat-processing industry – attack the paint on systems as they age, the AUTOSTAT solutions feature a high-strength aluminium alloy. the installed moulded parts, screws, cables and snap hooks are made of stainless steel. the safety hooks and all bolts are also made of stainless steel. this makes the systems totally safe to use, while also ensuring a significantly longer period of use.



- ① stainless steel safety chain
- ② extremely impact-resistant special plastic housing
- ③ stainless steel carabiner hook
- ④ stainless steel safety hook
- ⑤ stainless steel bracket
- ⑥ stainless steel rope



- ① stainless steel shackle
- ② stainless steel fittings
- ③ brass stop
- ④ stainless steel safety hook
- ⑤ stainless steel bolt, pipe, washer and split pin
- ⑥ stainless steel rope



- ① plain aluminium holder
- ② plain high-strength aluminium alloy
- ③ stainless steel carabiner hook
- ④ stainless steel safety chain
- ⑤ stainless steel screw
- ⑥ aluminium clip