



Synergy of
Quality
and Experience

Global player in gas springs

Destek develops and manufactures gas springs, dampers and position adjustment products for everything that needs to be lifted, lowered, moved and set into position- in machines, medical equipment, vehicles, furniture, etc. Based on years of experience in production of gas springs, we are supplying one of the largest product range in gas spring and dampers worldwide. Destek currently supplies more than 10.000 part numbers that cover applications in a dozen of industrial sectors - an exceptionally wide product range.

Destek's success is based on great innovative force, proximity to the customer on a global scale, the highest possible quality in all processes and its ability to react quickly to customers' special requirements. We are committed to excellent quality and innovative ideas for the customer. We help our customers design new products, redesign an existing project and investigate cost savings. Here at Destek, the most important thing we offer is exceptional service. These strengths at Destek Gas Springs have helped our company grow from a small manufacturer in 1987 to a global player in gas springs. Companies from about 60 countries and dozen of different industrial sectors rely on our products.

Active partner of customers

Today, modern equipments are expected to satisfy a variety of different - and seemingly contradictory - demands: they must be dynamic and durable, but also quiet and economical, while, at the same time, comfortable and safe. It takes creative technology using innovative products to reconcile these apparently incongruous trends. Questioning existing solutions, taking unusual paths and looking at things from another point of view - these are the prerequisites for the realization of extraordinary ideas. As a partner of various industries, we are a development and engineering partner of our customers providing solutions for the demanding challenges facing our future. For many years now, we have not only been a supplier of gas springs but also have been proud of becoming an active partner of our customers.



Synergy of quality and experience

As a forward-looking company, Destek has invested significant amounts in R&D. Modern testing facilities as well as special materials engineering laboratories ensure the continuous development and improvement of all product lines and confirm the innovative force of Destek. However, no matter how impressive our equipment, control systems and quality assurance processes are, it is the people at Destek that make the greatest difference. The most important potential of a company is its employees. "A company is only as good as its employees" is a principle consistently embraced by Destek. Personnel development is characterized by continuing education and training. We provide support to our employees from the very beginning of their careers. Every day, our employees work hard to make sure that our standards of quality and service are upheld for each customer.

Quality Assurance at every Manufacturing Stage

Destek is committed to achieving its quality objective of "zero defects" in all areas. A consistent and strong quality management system throughout all phases from design to manufacturing ensures the highest product safety possible.

DESTEK's production and quality systems are certified in accordance with ISO 9001:2008 and ISO/TS16949:2009, which ensure that scrupulous attention to detail is built in at every stage of design and manufacture of our products.



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LIFT

The "Lift" type is our most popular gas spring. Lift type gas springs work on counterbalance basis, i.e. the extension force balances the weight to be lifted, positioned or lowered. They meet the highest worldwide standards for lifting, counterbalancing, lowering, tilting and damping lids and covers.

The most known applications are car hatchbacks and engine hoods, on furniture, machinery, etc.

► INOXLIFT – stainless steel gas springs

Inoxlift gas springs are produced for external applications wherever harsh conditions, high corrosion resistance or environment are a concern. This line of gas springs is commonly found on applications where a high level of cleanliness and hygiene is necessary. Most common applications are in the marine/ship building industry, medical equipment and food industry.

► GT-LIFT – traction gas springs

The working principle of the GT-Lift is the opposite of the Lift type gas spring. While the Lift type gas spring is always prepared to extend (i.e. to open lid and covers) the GT-Lift's function is to retract itself. Example applications are garage doors, exhaust systems, machinery, etc.



► STOPLIFT – gas spring enabling variable positioning

The special locking system of Stoplift gas springs enables variable positioning almost over the entire stroke without need of any actuating/releasing mechanism. On applications where the Stoplift is used, the flap/weight can be set precisely in any position, at any angle and at any distance. Common applications for Stoplifts are tanning beds (solarium), monitor arms, serve over counters & refrigerators etc.

► STEP-STOP – gas springs with multi stroke section

The Step-Stop is a multi-section operating gas spring dividing the opening stroke into multi distinct sections for desired flap positioning. Set stop points allow the Step-Stop gas spring to stop at various angles depending on how many stops are required by the customer.

► LIFT & LOCK – gas springs with end position locking

Lift&Lock type gas springs are regular Lift types but with additional end position locking feature. Depending on the type you choose the end locking is available at extended, compressed or extended and compressed positions.

► LKD – gas springs for heavy duty applications

Use benefits of our LKD type gas springs for heavy duty applications requiring lifting forces from 740 kg to 5000 kg. The LKD is ideally suited for a wide variety of applications in the machinery industry.



BLOCKLIFT

Blocklift gas springs can be locked at any desired position along the complete stroke. The locking mechanism will only allow the piston rod to be moved while the release pin is pressed. While the release pin is pressed, the Blocklift works like a normal gas spring on counterbalance base and the gas spring closes or extends according to the applied force / loaded weight. When the release pin is no longer being pushed the locking mechanism locks immediately causing the Blocklift to stay in that position.

Whether it is hospital beds, seats or tables, wheelchairs or steering columns; Blocklift gas springs support the lifting and lowering, changing or adjusting of movable elements safely and comfortably.

Main Blocklift variants

► Rigid locking Blocklift

Blocklift gas springs providing "to the point accurate" locking in extension direction (BL1) or in compression direction (BL2).

► BL3 - Spring Blocking

BL3 type Blocklift gas springs are ideal for applications where some comfortable damping is desired. Depending on the applied force a cushion effect will take place while the gas spring is locked.

► BL4 - HYDROSTOP rigid in extension and compression

The BL4 provides total rigidity in extension and compression direction.

► BL5 - M-Blocklift

The M-Blocklift offers a number of advantages for height-adjustment requiring applications.



► Blocklift with one direction locking

One direction locking Blocklift gas springs do require an actuation mechanism to operate in one direction but permit actuation free travel in the opposite direction. Available in two types; BL6 - Locking in extension / free travel in compression and BL7 - Locking in compression / free travel in extension

► BL8 - GT-Blocklift - traction Blocklift

The working principle of the BL8 - GT-Blocklift is the opposite of the Blocklift type gas spring. While the standard Blocklift is always prepared to extend (i.e. to open itself) the GT-Blocklift is produced to close itself.

► Blocklift with override function

In addition to Blocklifts standard variable locking feature, override function featured Blocklift will allow applications to extend or compress if high forces occur unintentionally.

Available in two types; the BL9 with override function in extension direction and the BL10 with override function in compression direction.

► Inox-Blocklift the stainless steel range

For applications wherever harsh conditions, high corrosion resistance or environment are a concern the majority Blocklift type gas springs are available in stainless steel.

► T-Blocklift

T-Blocklift's are ideal for applications that require a short installation length but, at the same time, a long stroke.

► Burolift

The Burolift type gas spring is for usage on swivel chairs for either height or for position adjustments.



DAMPERS

Dampers are force-absorbing products used for product safety and or comfort on many different types of applications. Depending on the application in which they are going to be used; the following Damper types are available to fulfill your requirements.

- ▶ HK Dampers for motion control
- ▶ HA Dampers for shock and vibration absorption

Product range

- ▶ The damping characteristics of shock absorbers can be set linear, progressive or degressive to optimally match the particular application.
- ▶ with and without extension force
- ▶ with and without idle stroke
- ▶ with damping forces in one direction or in both directions
- ▶ force adjustable shock absorbers
- ▶ for position independent or position dependent installation

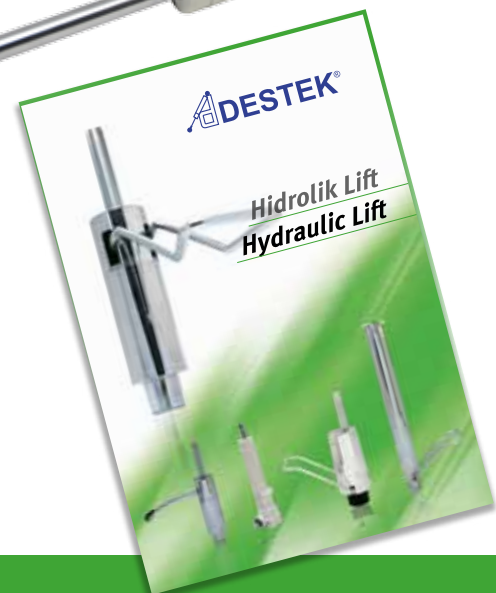
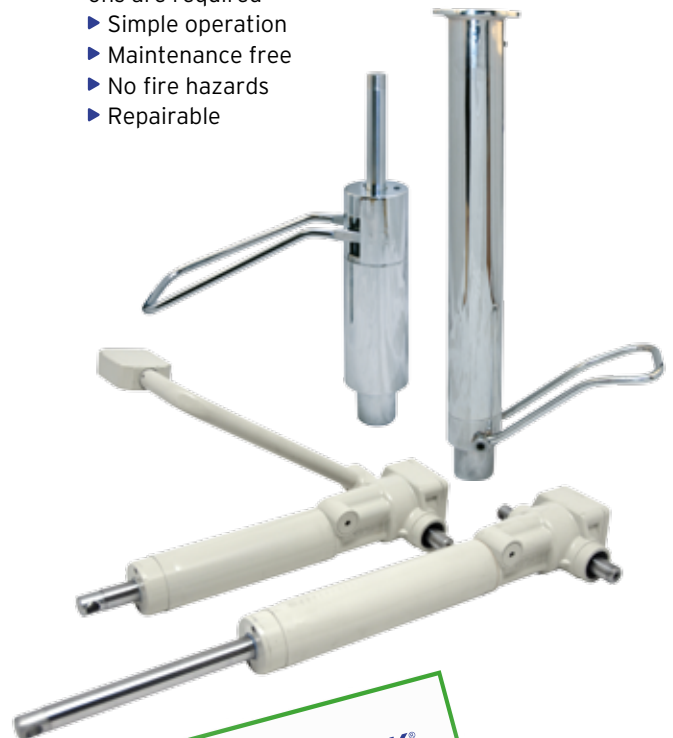


HYDRAULIC LIFT

Hydraulic Lifts are equipped with pedals used for extending or compressing the unit, thus positioning of the loaded weight. To lift the load, in other words to extend the hydraulic lift, the foot pedal has to be depressed for a specific arc several times. By releasing the applied force from the lever it returns by itself to its initial position. In order to lower the load and to return the hydraulic lift to the closed position the pedal has to be, depending on the Hydraulic Lift model you use, either slightly moved upwards or depressed completely.

Advantages

- ▶ Lifting capacity up to 1.000 kg. with single-lever operation
- ▶ Since these are hydro-mechanical actuators no power supply required
- ▶ No electrical safety regulations and inspections are required
- ▶ Simple operation
- ▶ Maintenance free
- ▶ No fire hazards
- ▶ Repairable



DESTOMAT

DESTOMAT is a user friendly easy to use positioning bracket. With its fixed holding positions the Destomat provides rapid and steady positioning. It is ideally suited for a wide variety of applications where a weight must be able to be held at various angles without an outside stop or support.

Available types and how they work Basic Type

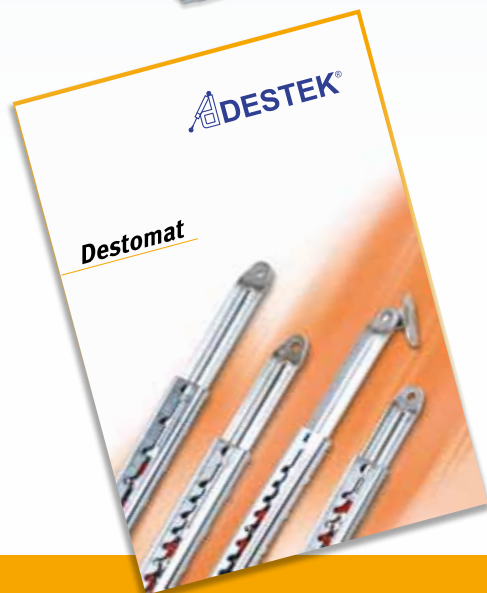
Slightly extend the Destomat from its compressed position and leave it at any desired holding position. To compress the unit again, fully extend it and let it return to its compressed / initial position. The basic type is available with 5 or with 10 holding position.

Reversible Type

Slightly extend the Destomat from its compressed position and leave it at any desired holding position. The reversible type can be compressed between any holding positions. To compress the Destomat simply lock it out from its locked position and compress it without need to fully extend it. The reversible type is available with 6 holding position.

Advantages

- ▶ easy assembly
- ▶ user friendly , easy to use
- ▶ stops in any required position
- ▶ up to 10 adjusting positions
- ▶ maintenance free
- ▶ no risk of damage due to over extension
- ▶ applicable on right and left hand side



NITROGEN GAS SPRINGS

A nitrogen gas spring is one of the so called standard components for press tooling.

A nitrogen gas spring is a self-contained cylinder that is pressurized with nitrogen gas. The gas pressure acts on the piston inside the spring and provides resistant force. When the spring is compressed, the movement of the piston displaces the gas volume resulting in increased spring force. We offer a wide range of models with strokes ranging from 5 mm to 300mm, cylinder diameters from 12 mm to 195 mm and initial forces of max. 18500 daN.

Nitrogen gas springs are traditionally used in high-speed stamping, injection molding and broad industrial stamping operations or where users need to manufacture dies.

Advantages of Nitrogen Gas Springs compared to conventional compression springs

- ▶ Less Space
- ▶ Less Height
- ▶ No pre-load required
- ▶ Balanced action & equal force
- ▶ Adjustable Force
- ▶ Repairable

