



Mechanisms & Gas Springs

ODI ***Mechanisms***

MECHANISMS

GAS SPRINGS



WHY CHOOSE US

CUSTOM MANUFACTURING

We will design and manufacture a mechanism to your drawings and dimensions. If needed, we invest in new tooling for your project.

CAN'T FIND WHAT YOU NEED?

This catalog shows only part of our range. If you need custom legs, swivel mechanisms, or any other parts — just contact us.

PRICE AND QUALITY

Competitive prices with consistently high quality — the best terms for a long-term partnership.

SAMPLES FOR TESTING

We are ready to send product samples for testing before you place your main order.

Bed Lifting Mechanism

Code: 213BM

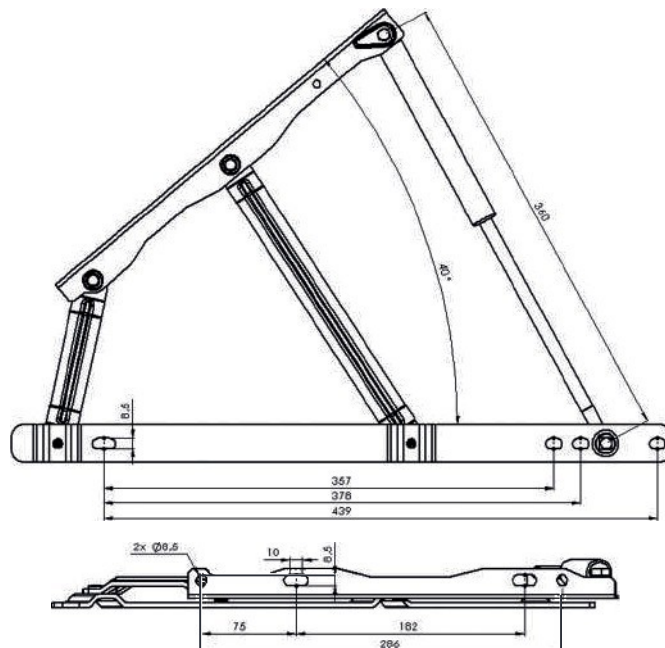


Operating Principle

Used in beds with a storage compartment. With the help of a gas spring, the mechanism opens to an angle of up to 40°, providing access to the storage compartment.



Connection Points and Technical Specifications



Milano — Bed Lifting Mechanism

Code: 213MB

Bed
Mechanisms

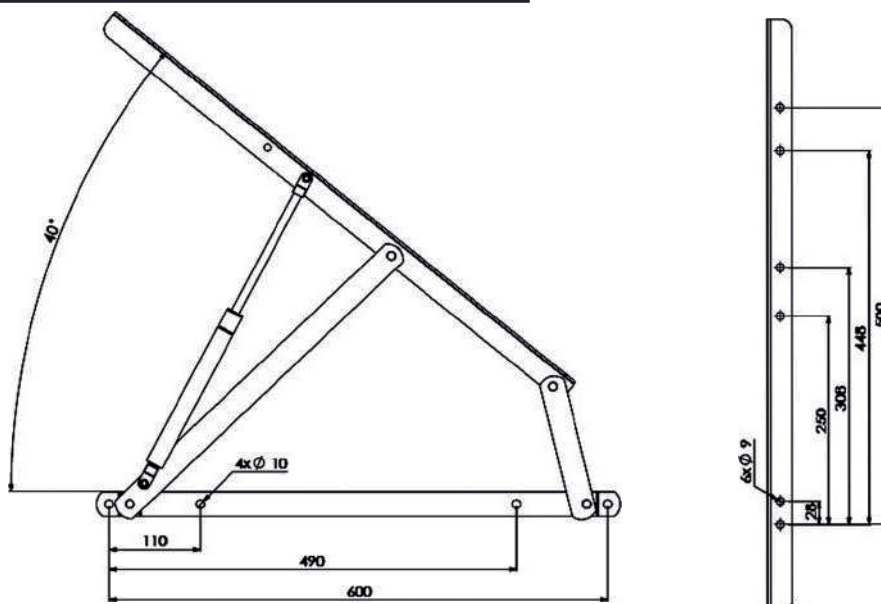


Operating Principle

Used for metal and wooden beds with a large-capacity storage compartment. Opens the mattress frame to an angle of up to 40° using gas springs, giving access to the storage compartment.

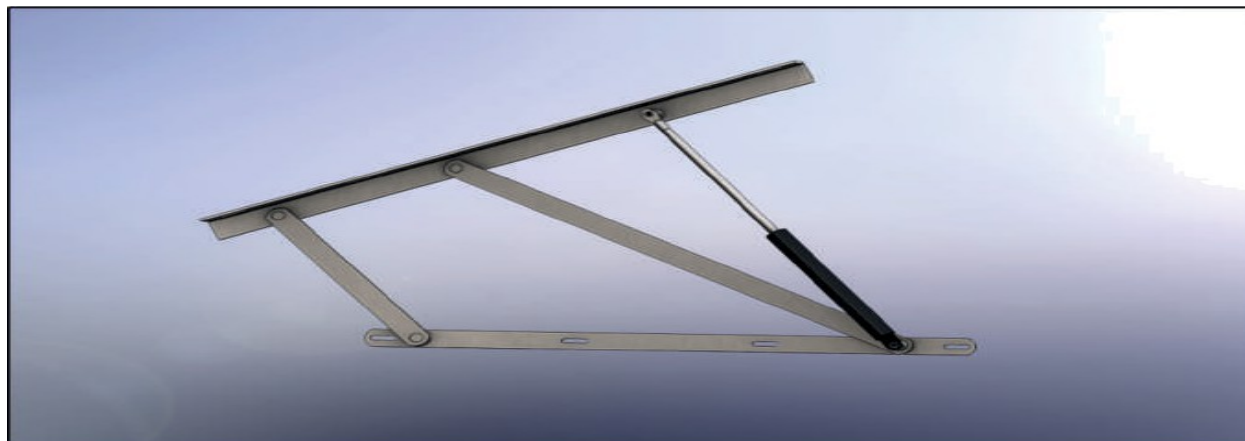


Connection Points and Technical Specifications



Pio Big — Bed Lifting Mechanism

Code: 1213BP

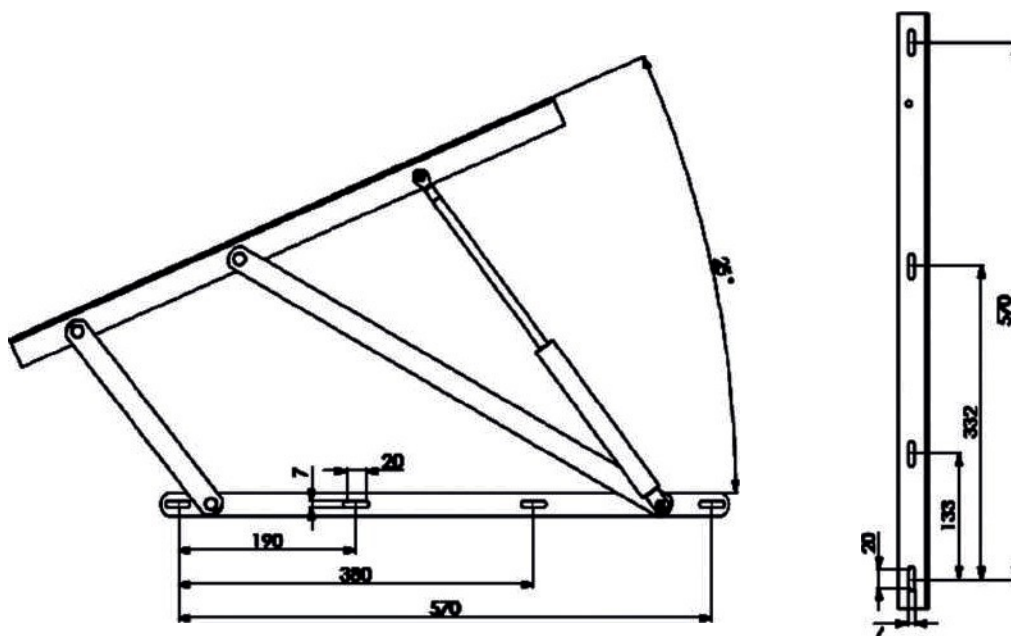


Operating Principle

Used for metal and wooden beds with an extra-large storage compartment. Opens the mattress frame using gas springs, giving access to the storage compartment.



Connection Points and Technical Specifications



Rio Small — Bed Lifting Mechanism

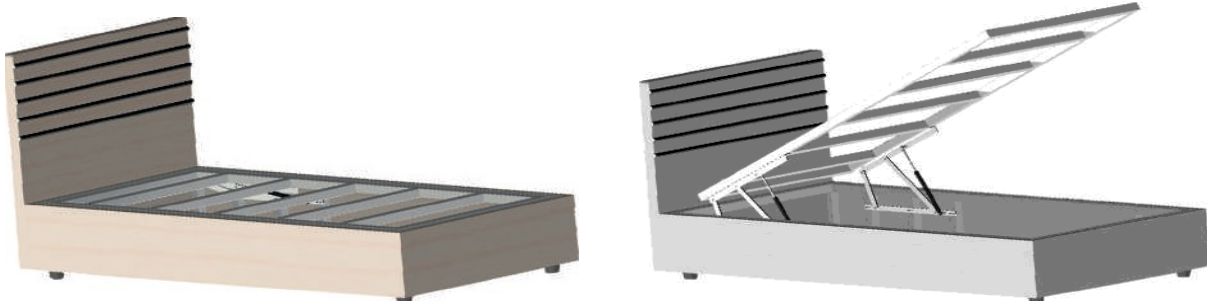
Code: 213KR

Bed
Mechanisms

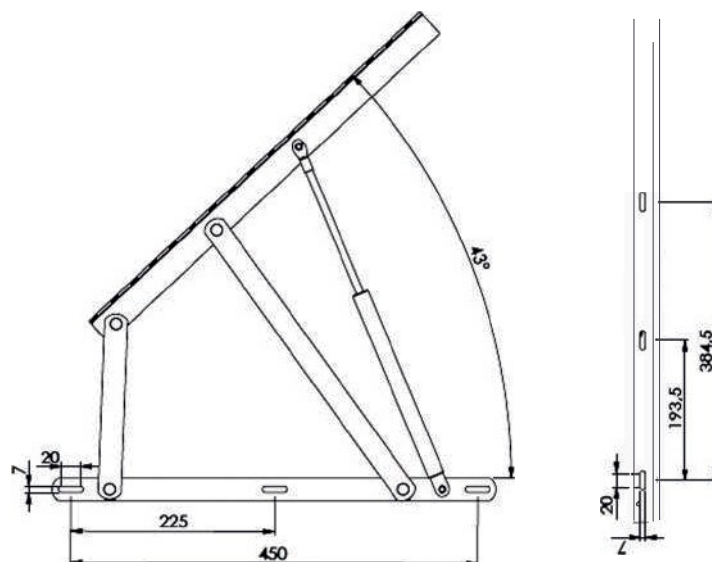


Operating Principle

Used in beds with a storage compartment. Allows the mattress frame to open with the help of a gas spring, providing access to the storage compartment.



Connection Points and Technical Specifications



Dualflex — Bed Lifting Mechanism

Code: 213IY

Bed
Mechanisms

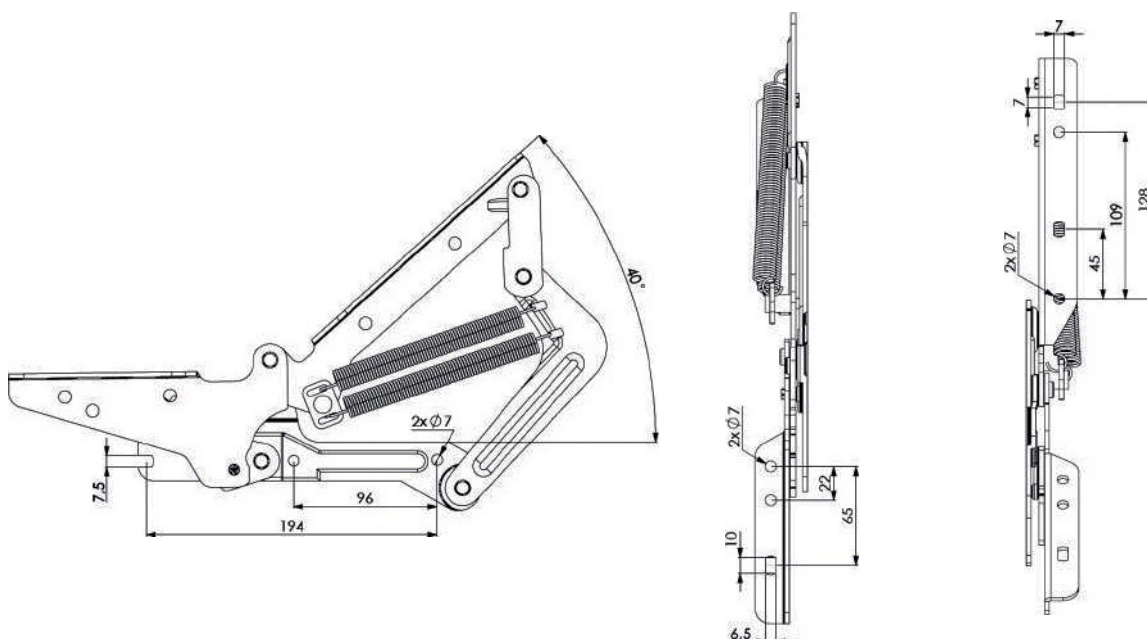


Operating Principle

Used in beds with a storage compartment. With the help of a gas spring, the front section of the bed opens to an angle of up to 40°, while the headboard section can also be adjusted in height across 3 positions.



Connection Points and Technical Specifications



Auto Lock — Bed Lifting Mechanism

Code: 013KB

Bed
Mechanisms

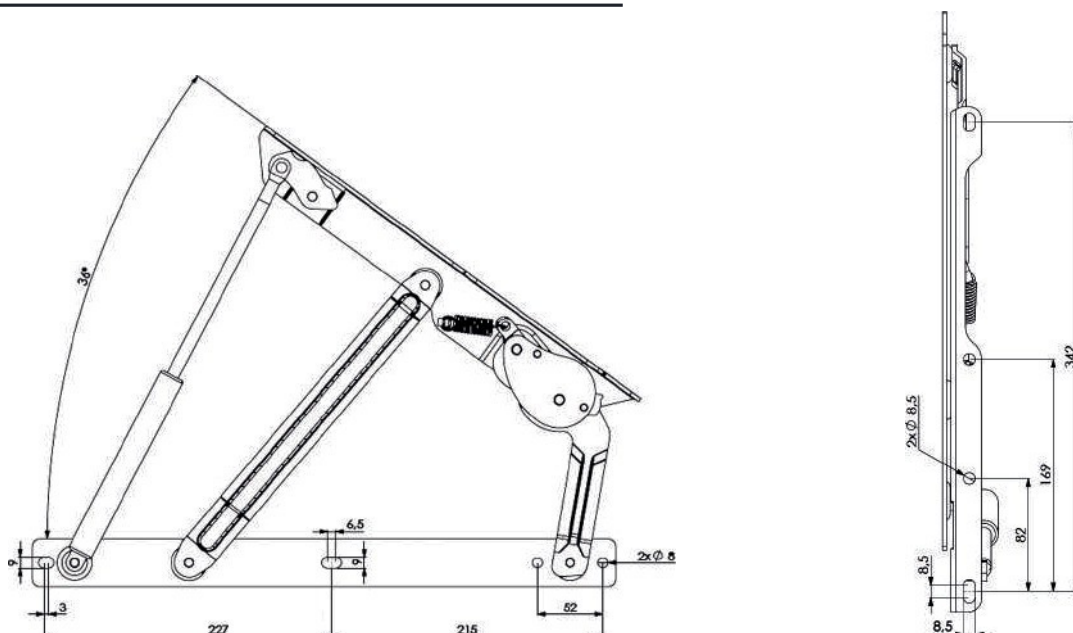


Operating Principle

Used in beds with a storage compartment. With the help of a gas spring, the mattress frame lifts to an angle of up to 35° and locks in place, protecting the storage compartment from accidental closing. To unlock, simply lift the mattress frame slightly, after which it can be closed. Compatible with CO-50M series gas springs.



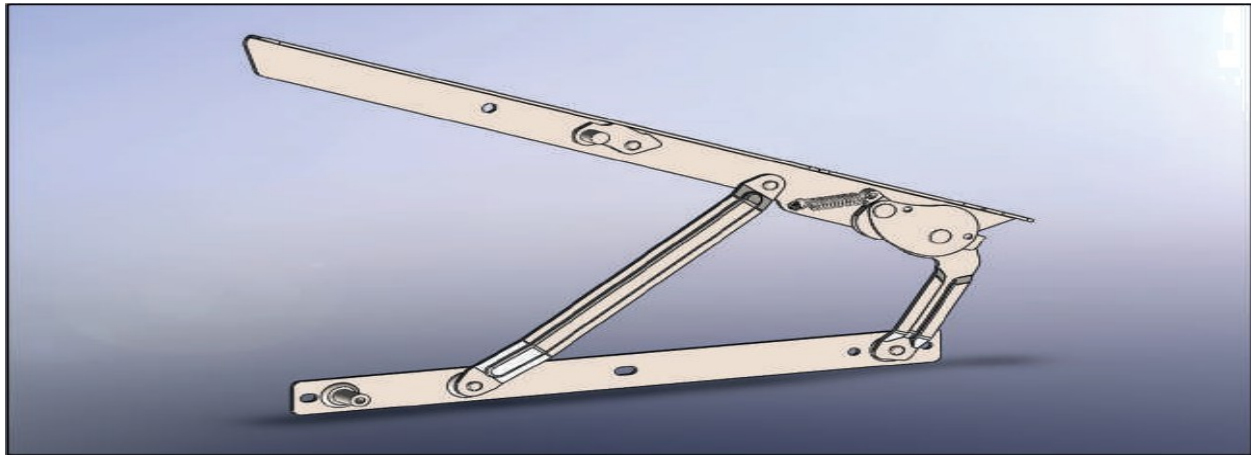
Connection Points and Technical Specifications



Auto Lock — Bed Lifting Mechanism

Code: 018UKB

Bed
Mechanisms

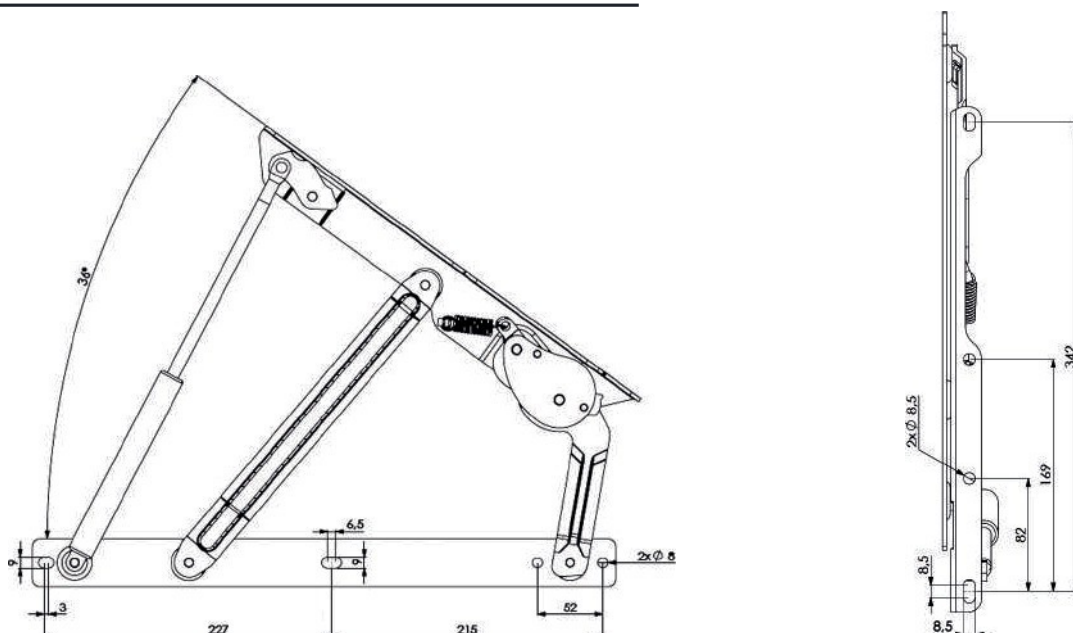


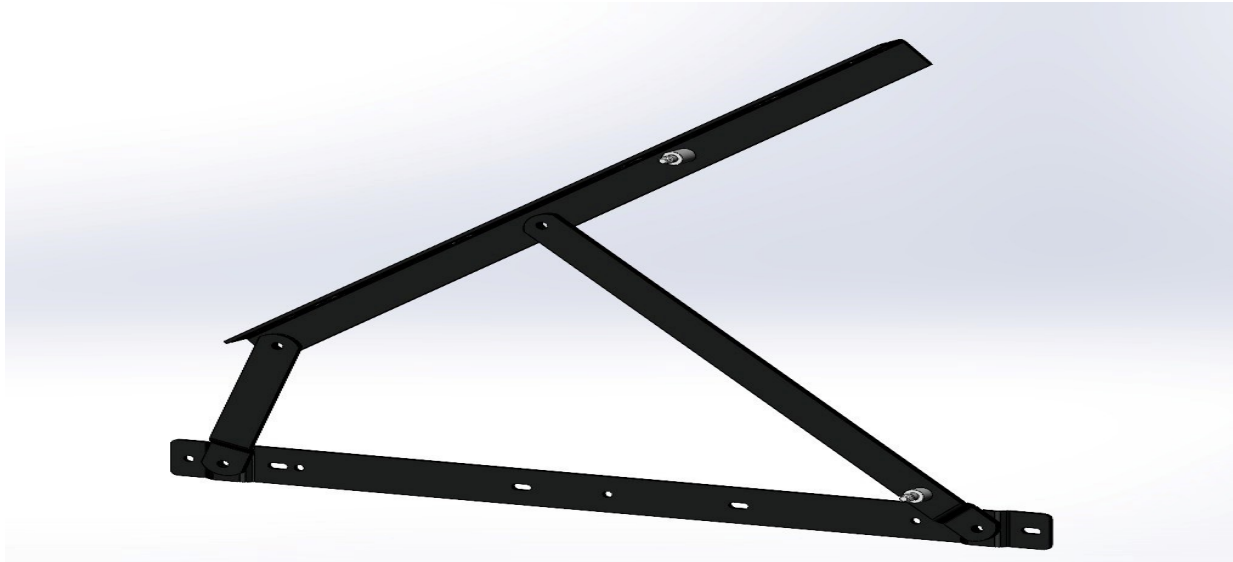
Operating Principle

Used in beds with a storage compartment. With the help of a gas spring, the mattress frame lifts to an angle of up to 35° and locks in place, protecting the storage compartment from accidental closing. To unlock, simply lift the mattress frame slightly, after which it can be closed. Compatible with CO-50M series gas springs.



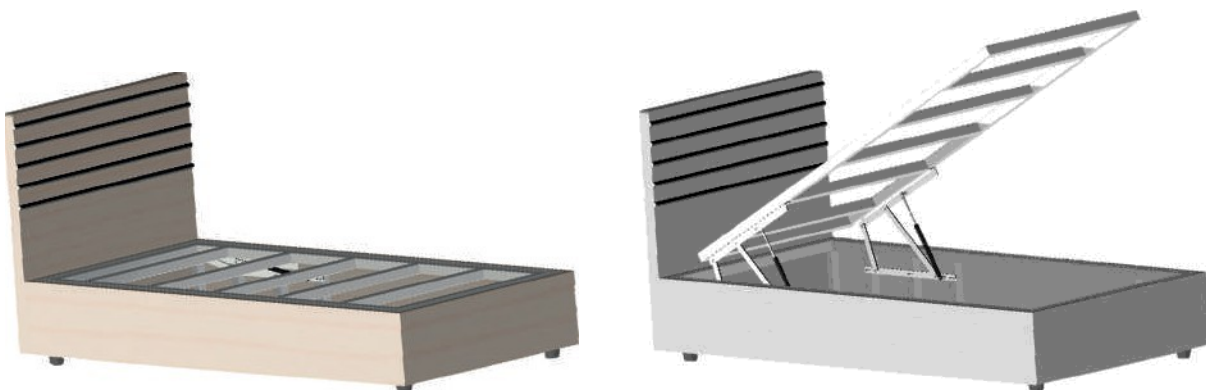
Connection Points and Technical Specifications



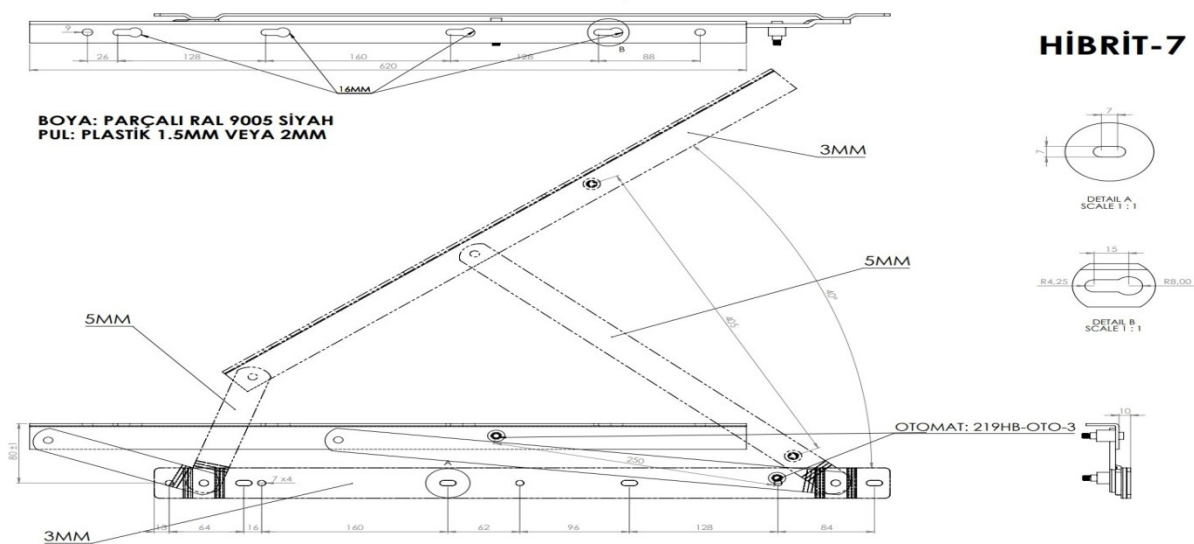


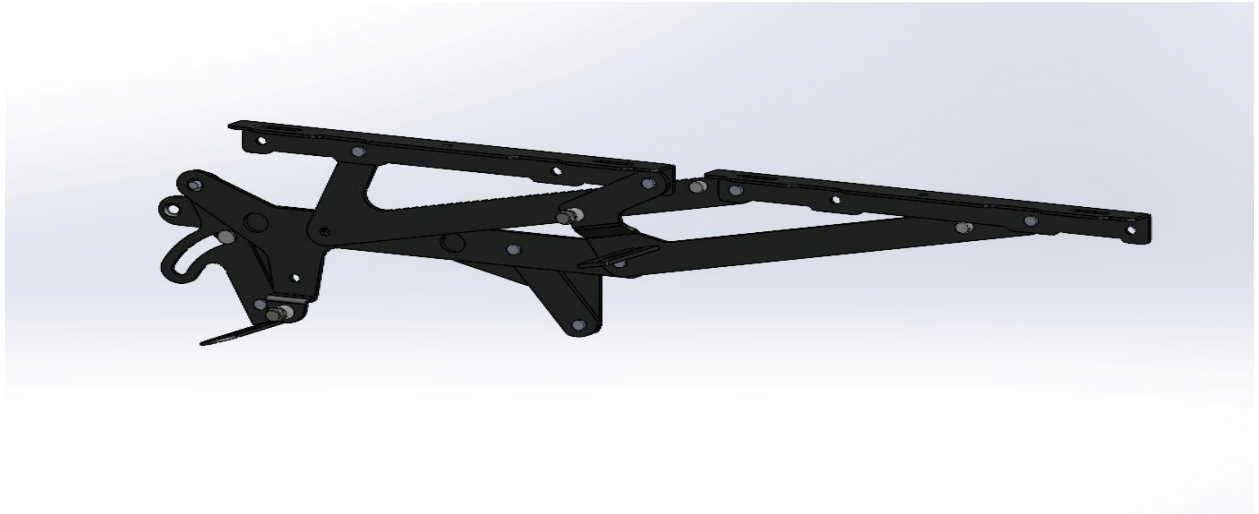
Operating Principle

Used in beds with a storage compartment. The gas spring opens the mattress frame, giving access to the storage compartment.



Connection Points and Technical Specifications



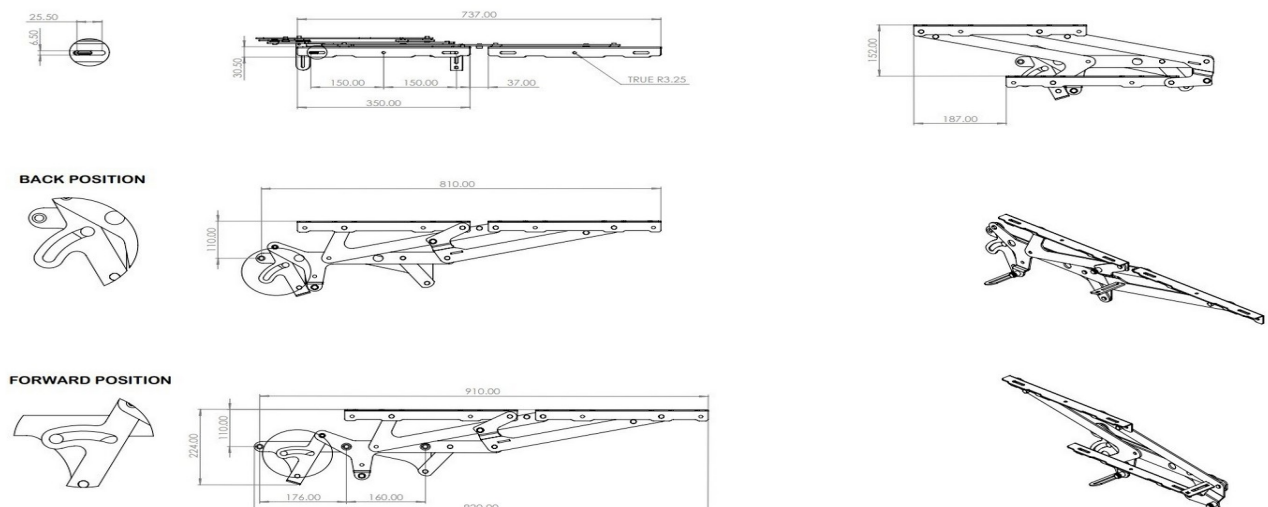


Operating Principle

Used in beds with a storage compartment. The gas spring opens the mattress frame, giving access to the storage compartment.



Connection Points and Technical Specifications



Bracket 2

Folding
Mechanisms



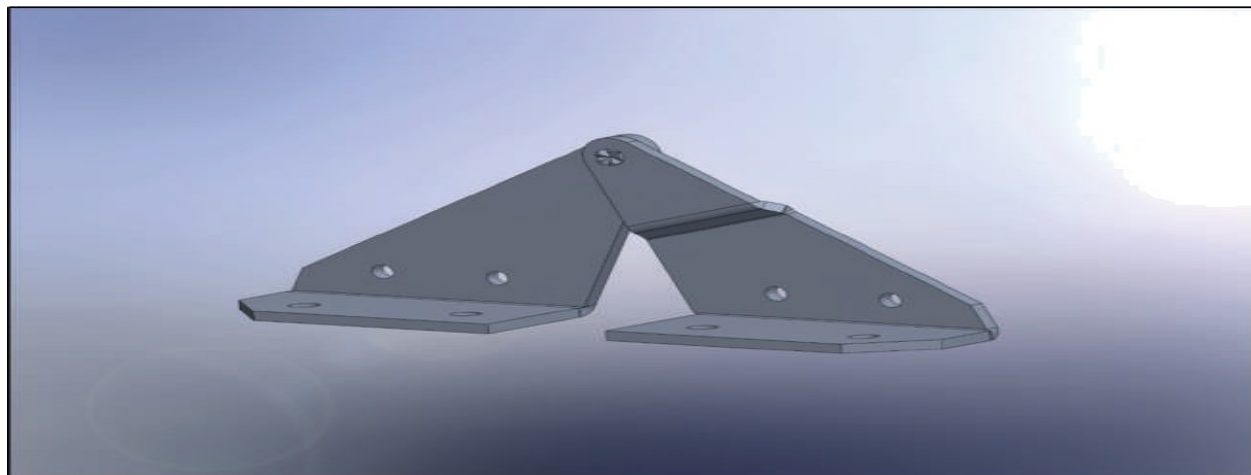
Bracket 3



Big -L- — Hinge Mechanism

Code: 215BL

Folding
Mechanisms

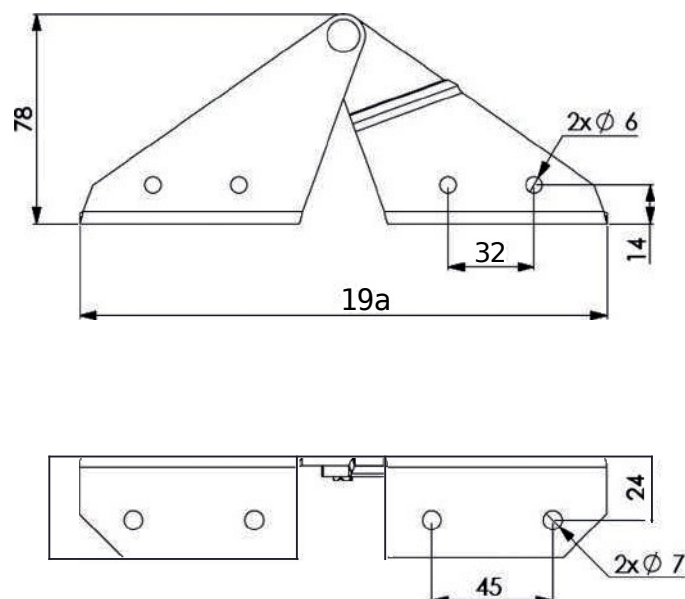


Operating Principle

Used in wood-frame furniture as a hinge mechanism.



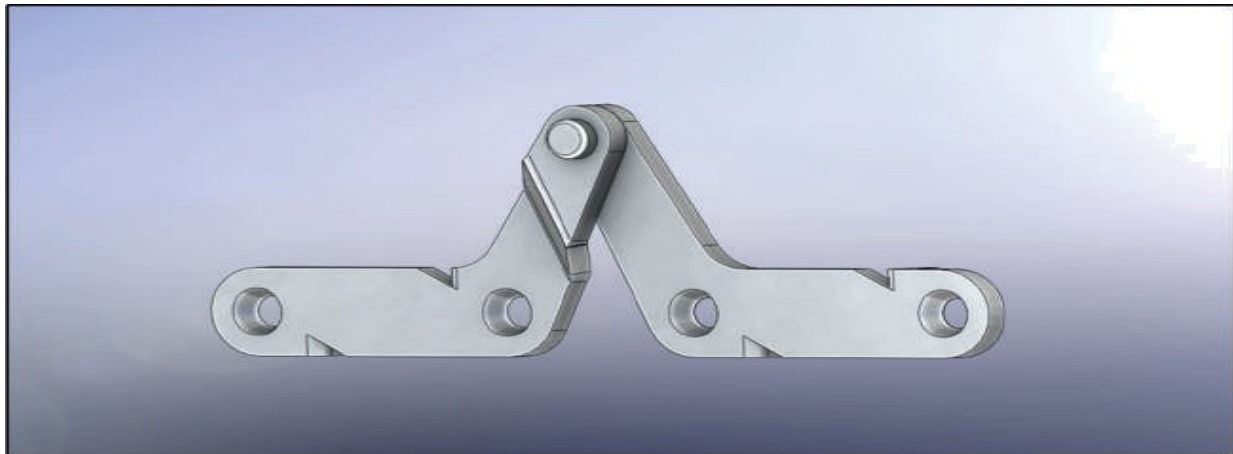
Connection Points and Technical Specifications



L-Hinge with Extension

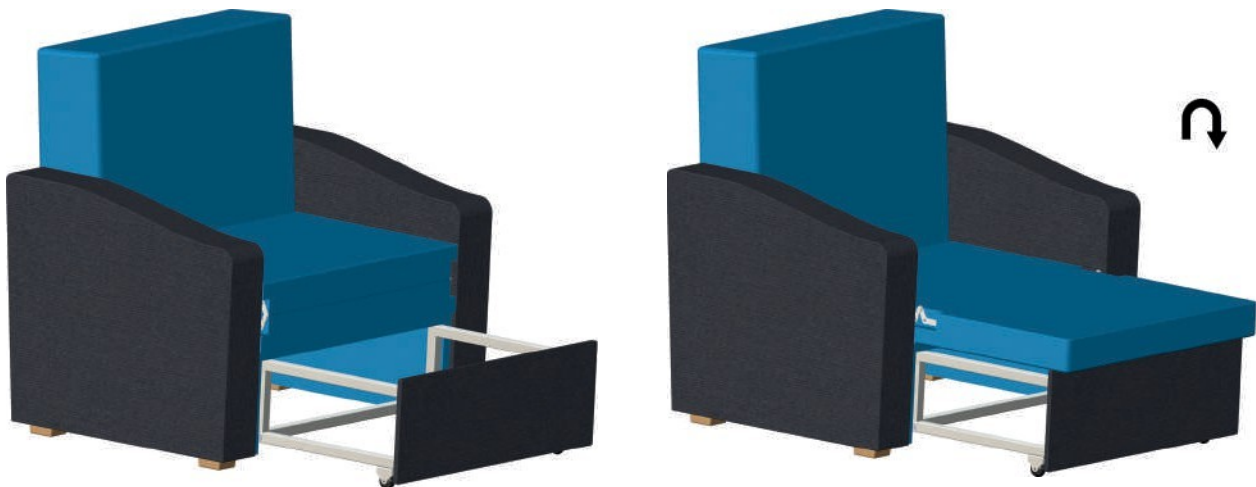
Code: 215TL

Folding
Mechanisms

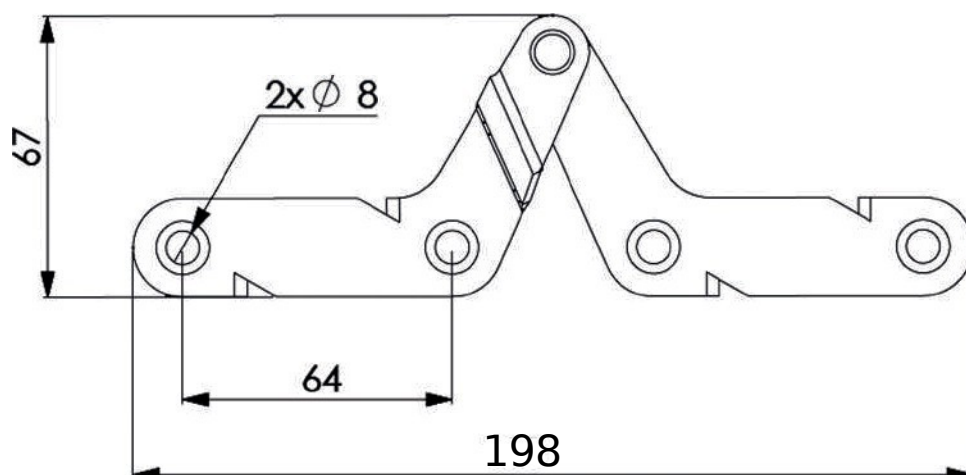


Operating Principle

Used as a hinge in wooden furniture.



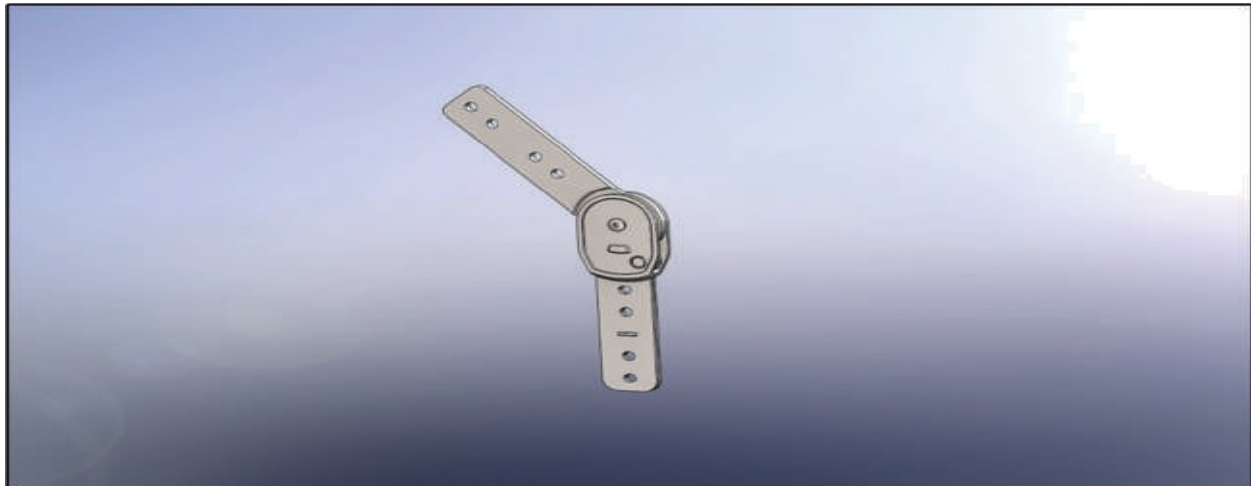
Connection Points and Technical Specifications



Armrest Adjuster

Code: Y11KK

Folding
Mechanisms

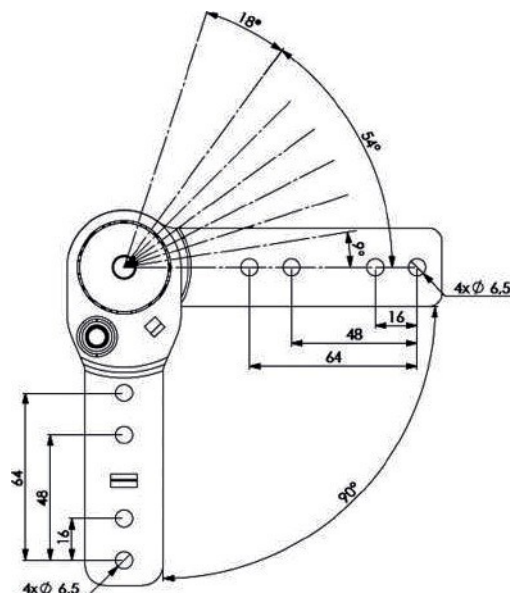


Operating Principle

A functional mechanism for adjusting the position of the headrest and armrests of armchairs and sofas. Supports up to 10 sections with a 9° tilt angle each. Available in 3, 4, 8, and 10-section versions.



Connection Points and Technical Specifications



Headrest Rod Adjuster

Folding Mechanisms

Code: 101B

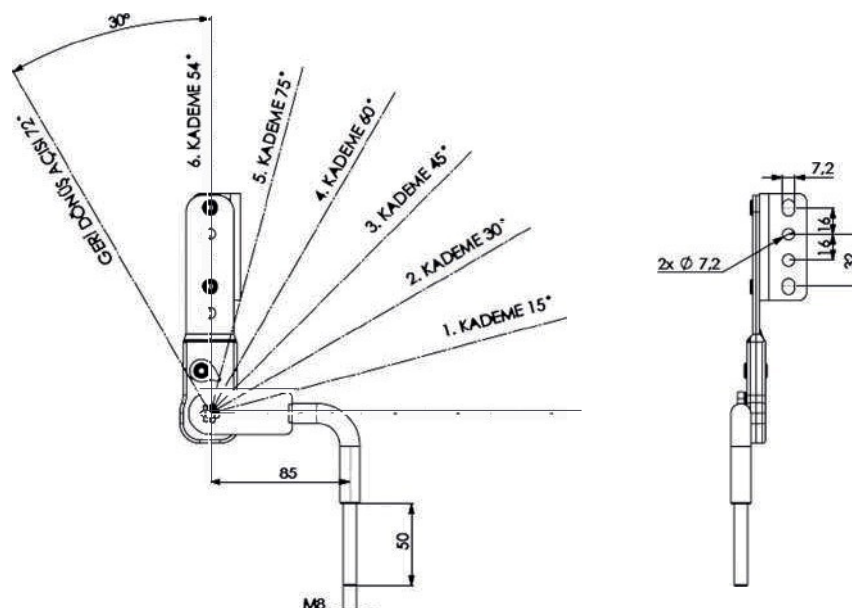


Operating Principle

Provides adjustable support for furniture with height adjustment across up to 6 levels and a tilt angle of up to 15° at each level. Available with different projection lengths from the mounting point.



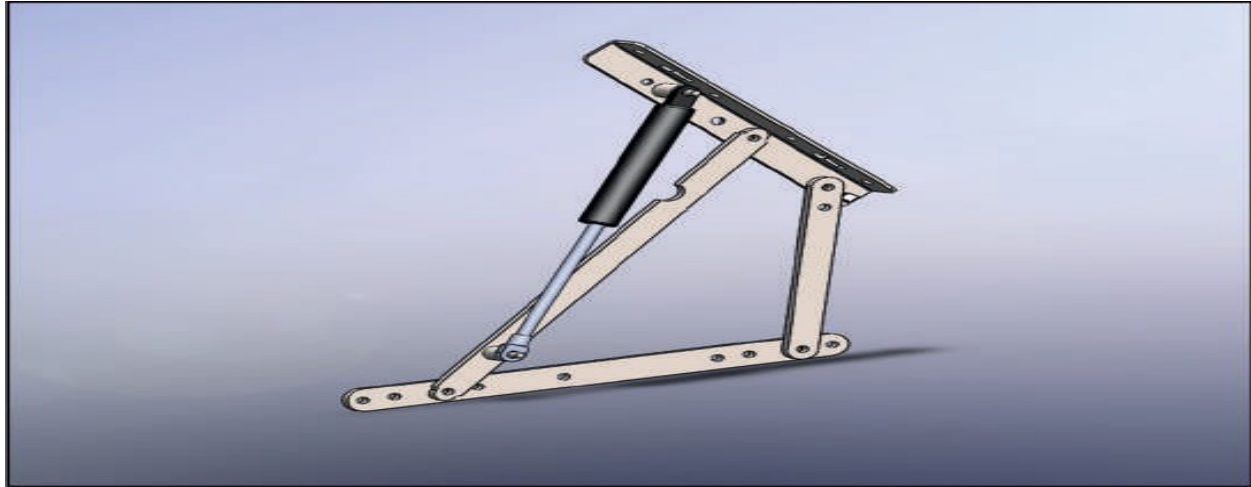
Connection Points and Technical Specifications



GAVAZ Comfort — Lifting Mechanism

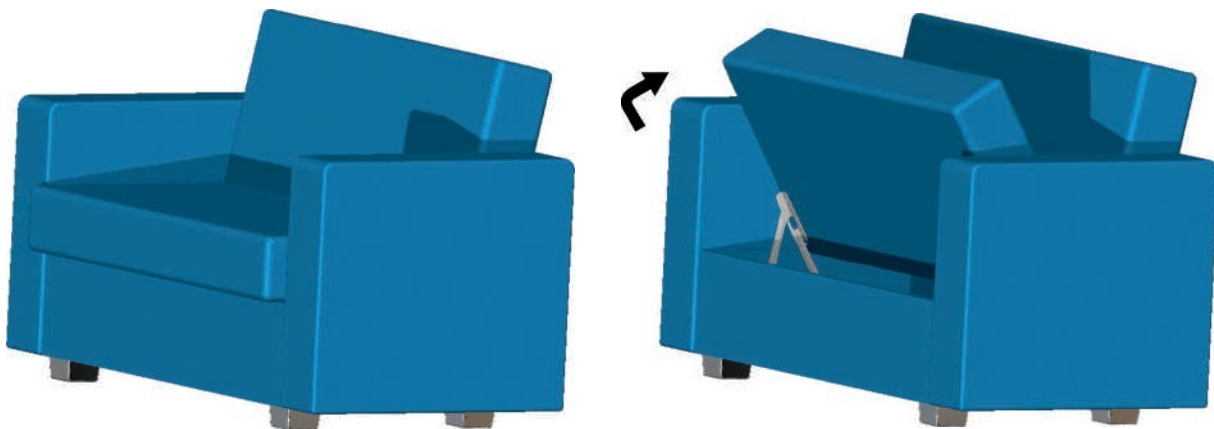
Code: 218AS

Lifting
Mechanisms



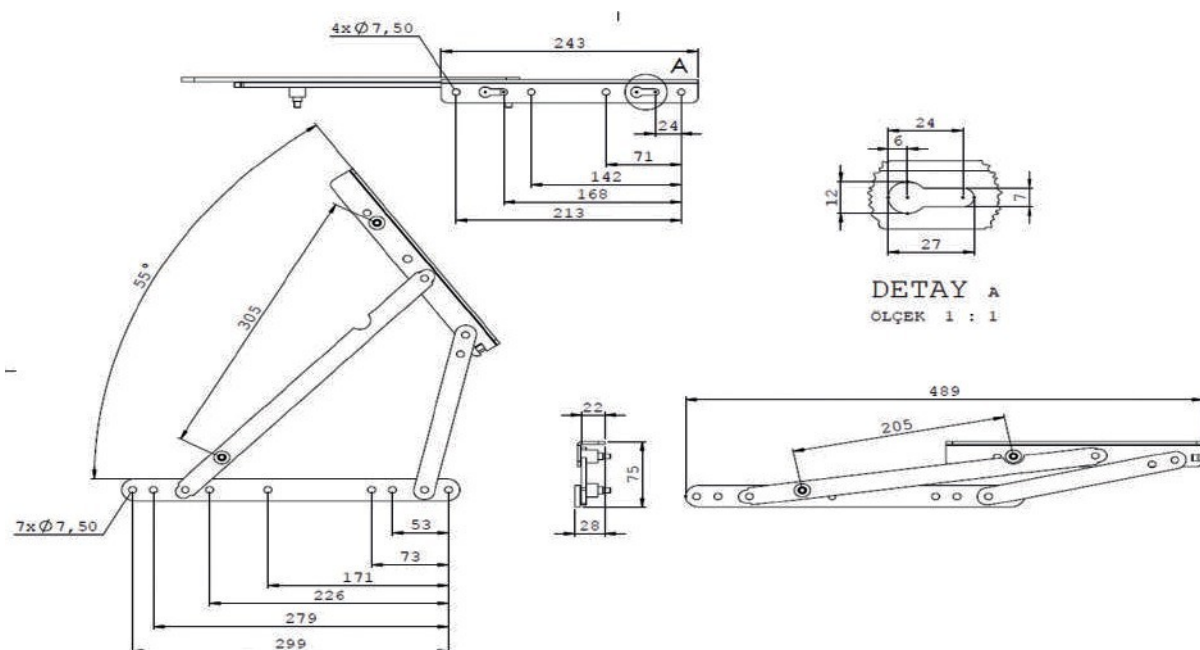
Operating Principle

Provides reliable support for the structure and opens with the help of a gas spring, providing access to the internal storage compartment.



Connection Points and Technical Specifications

Alternative Version



GAVAZ Midi — Lifting Mechanism

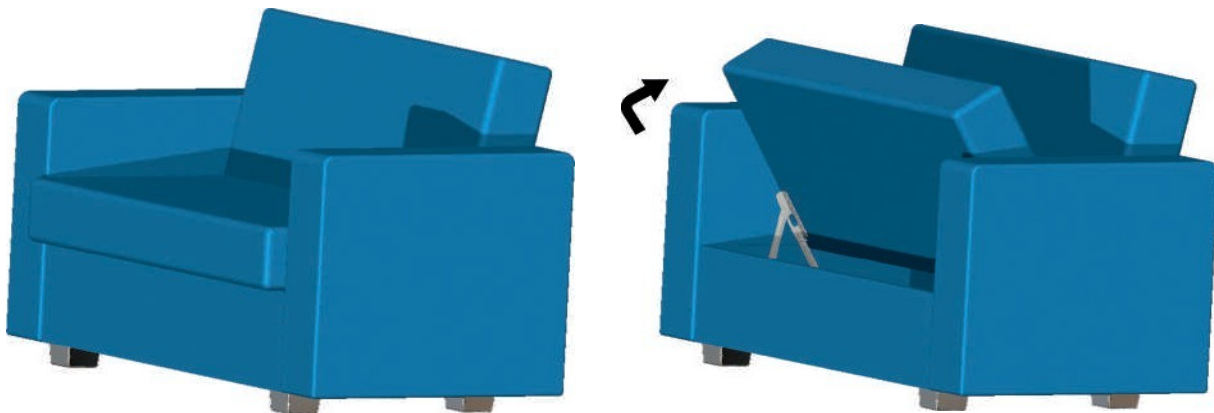
Code: 218SP

Lifting
Mechanisms



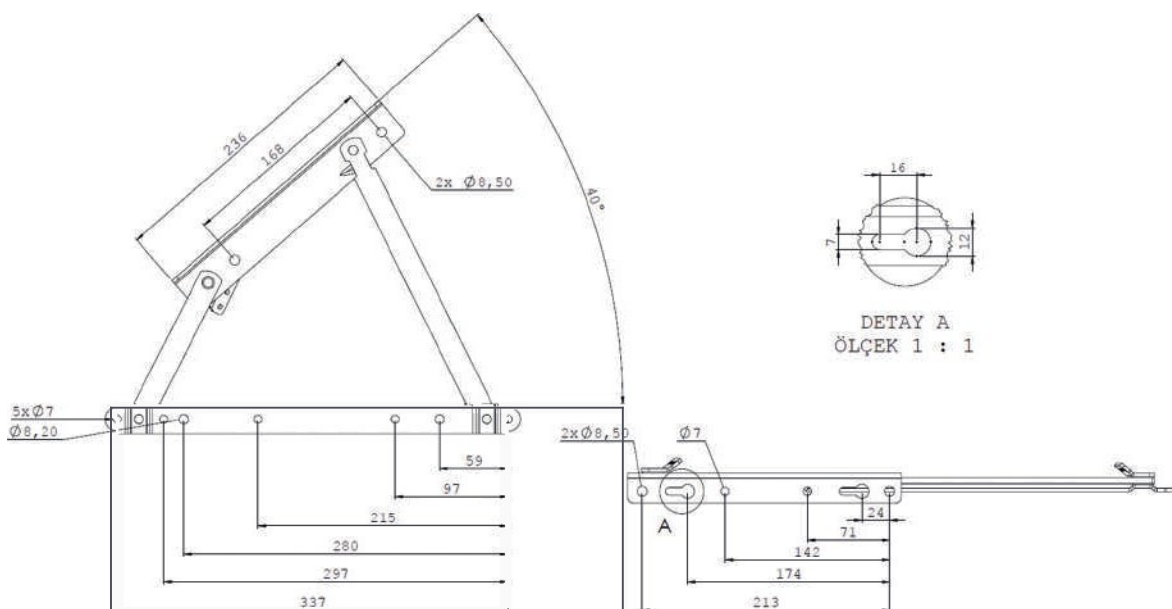
Operating Principle

Provides reliable support for the structure and opens to an angle of up to 40° using a spring mechanism. The internal frame doubles as a storage compartment.



Connection Points and Technical Specifications

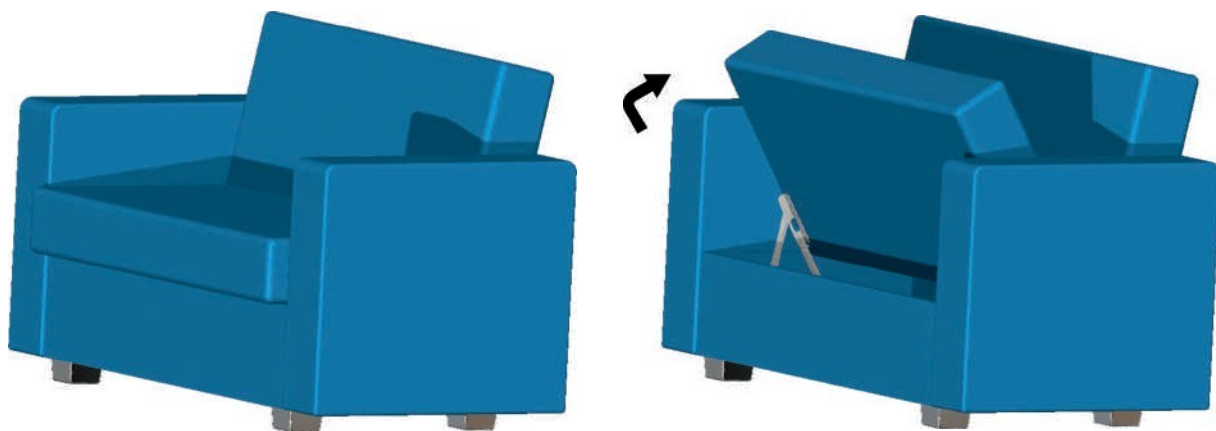
Alternative Version



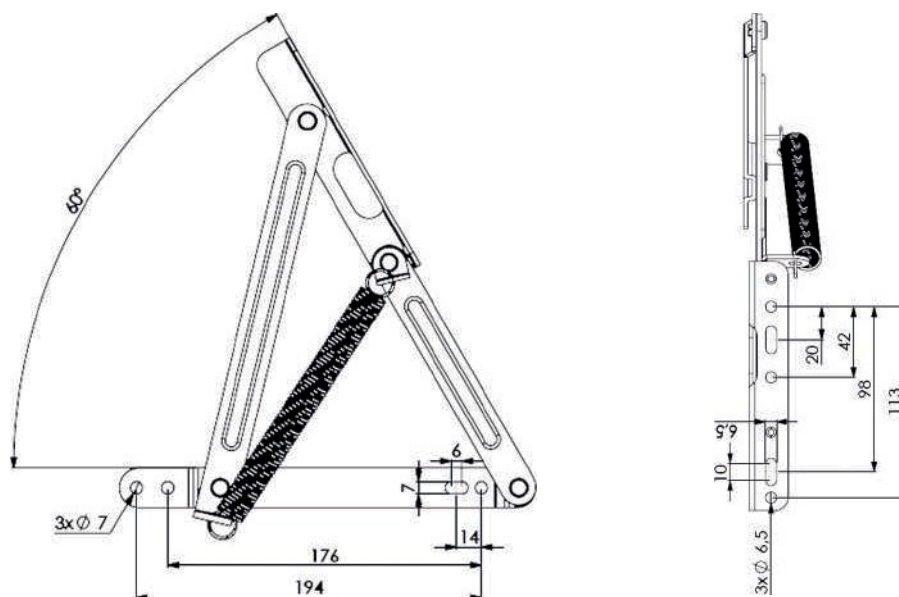


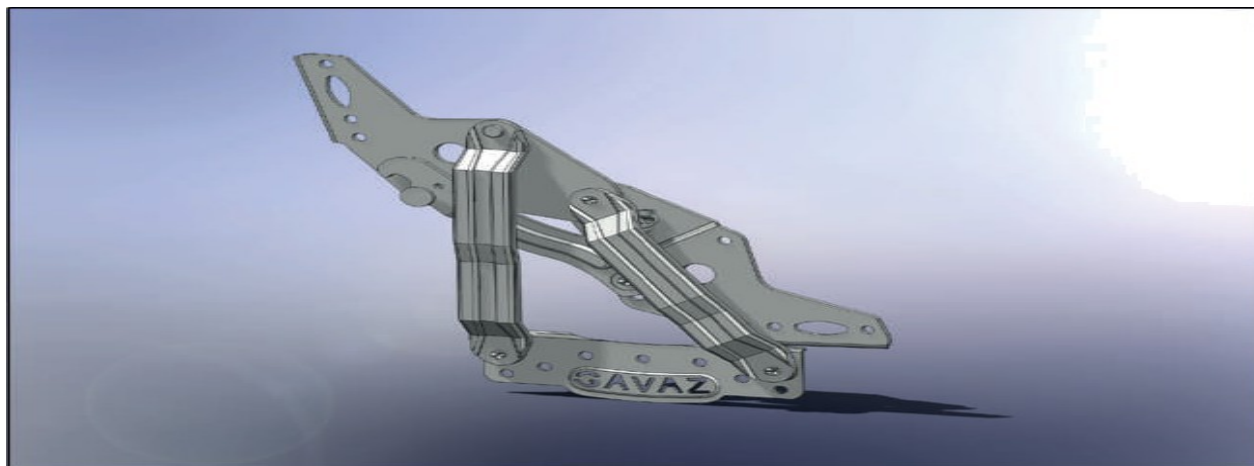
Operating Principle

Provides corner support and opens with the help of a spring mechanism. The internal frame can be used for storage or product display.



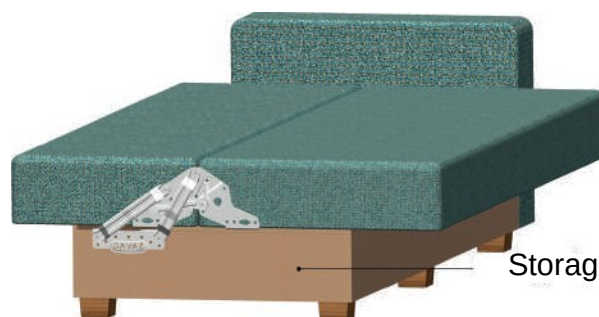
Connection Points and Technical Specifications





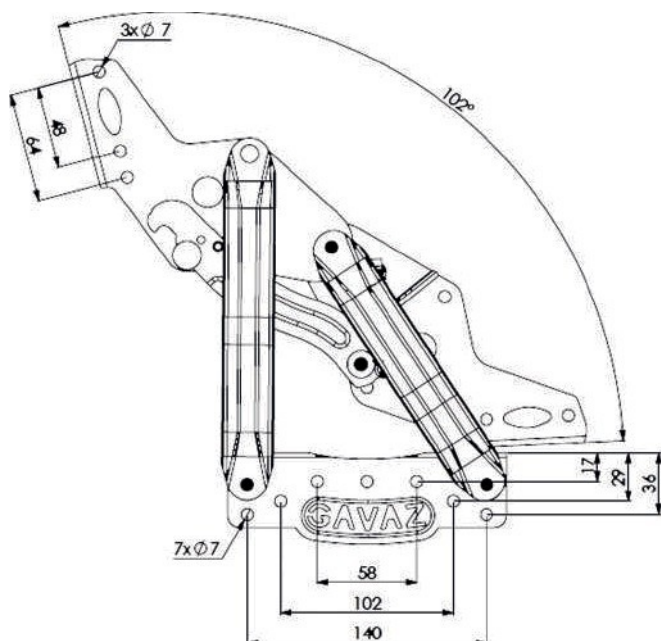
Operating Principle

A mechanism for transforming a sofa bed from a seated position into a bed position. Suitable for sofas with metal and wooden frames.



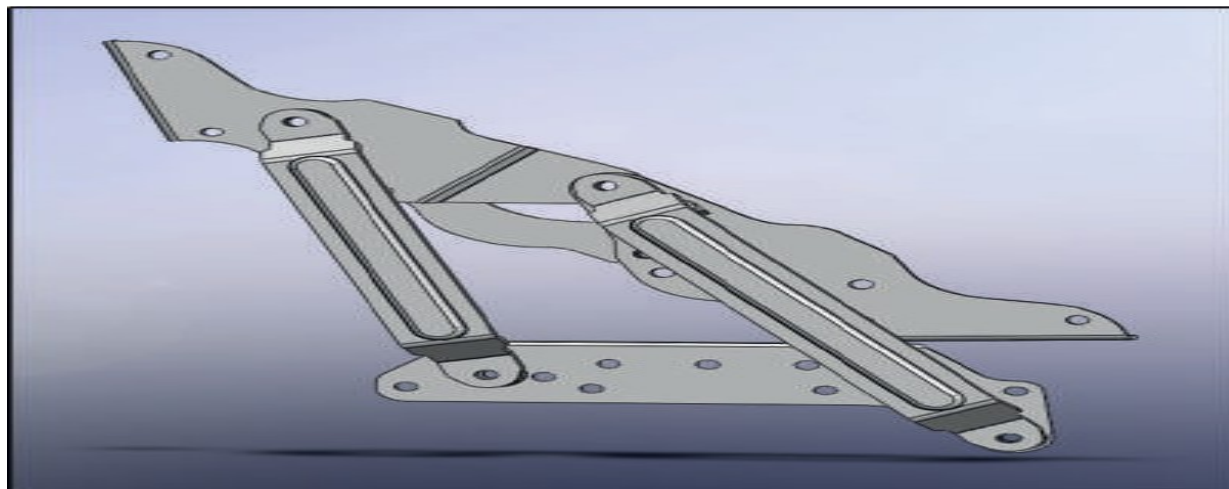
Storage Compartment

Connection Points and Technical Specifications



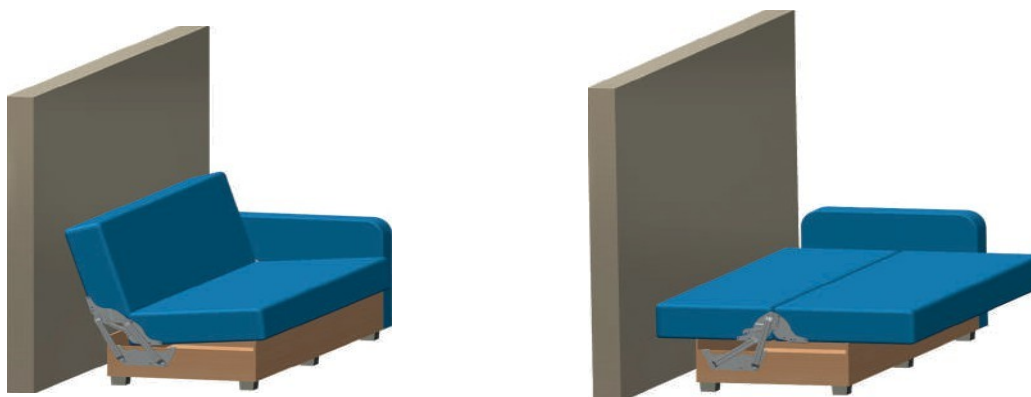
Mini Zero Extra — Transformation Mechanism

Code: 1012ME

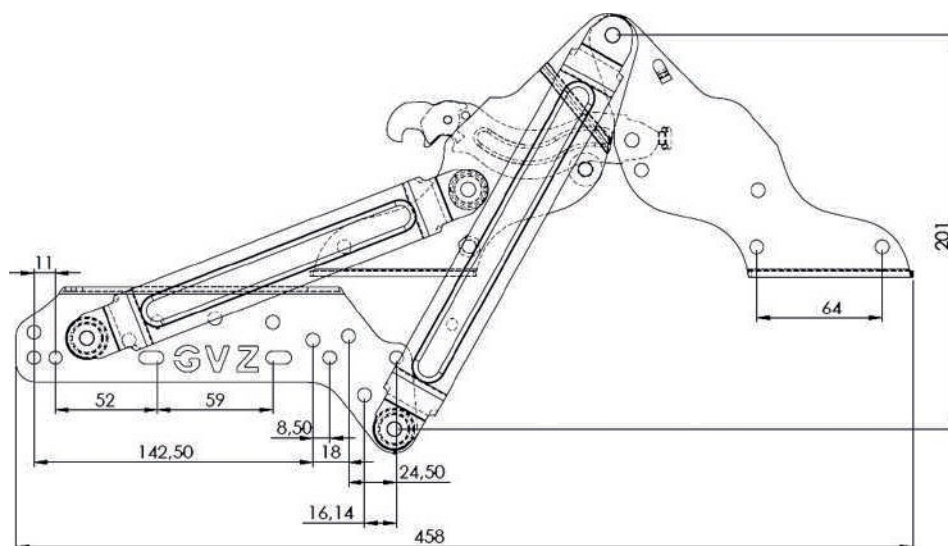


Operating Principle

Allows easy transformation of a sofa, bed, or shelving unit into an armchair without moving it away from the wall — for metal or wooden frames. There is no need to pull the sofa away from the wall to change its position.



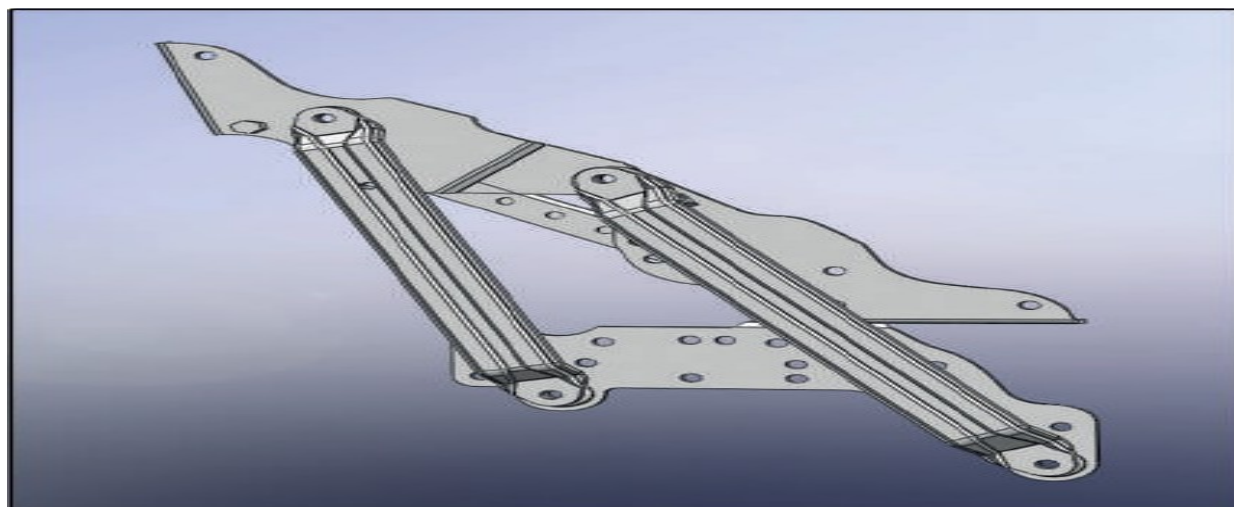
Connection Points and Technical Specifications



Midi Zero — Transformation Mechanism

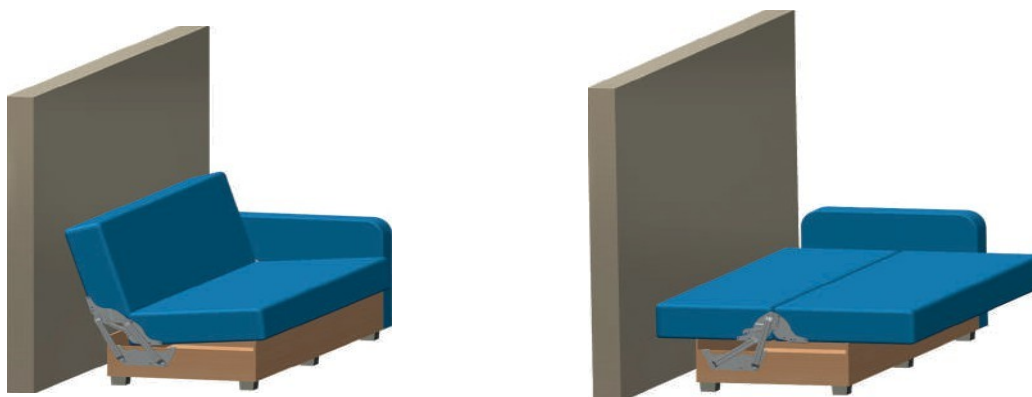
Code: 1012W

Transformation
Mechanisms

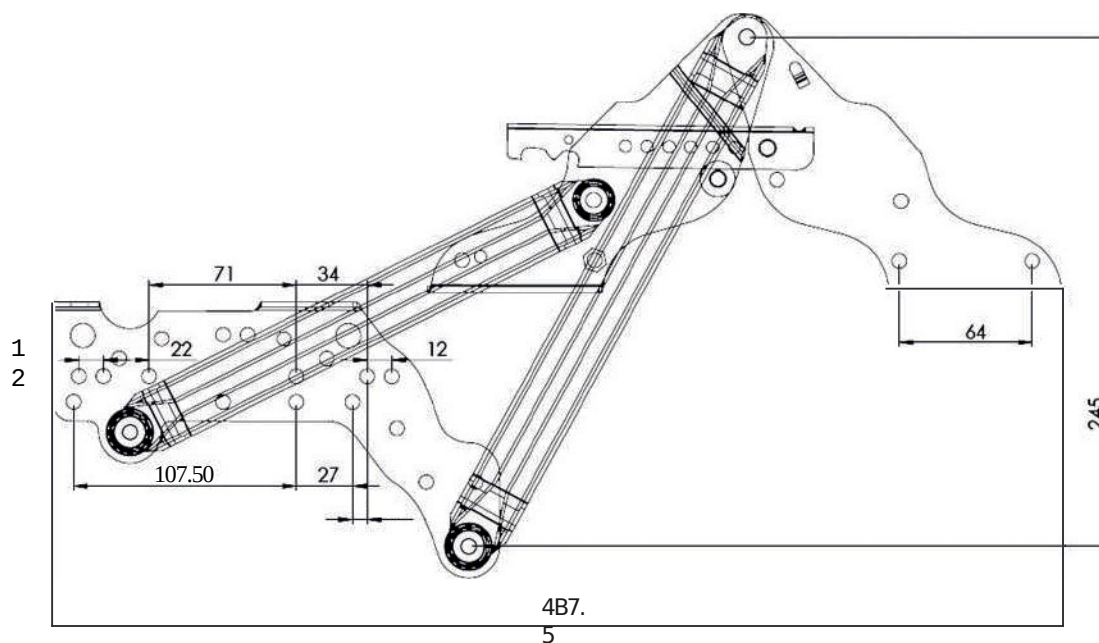


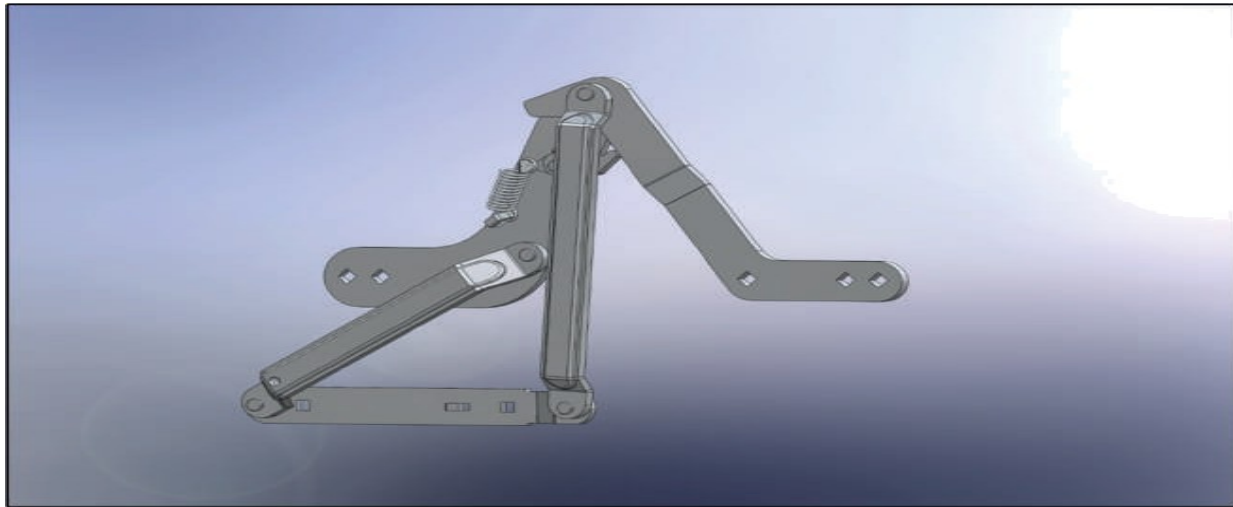
Operating Principle

Provides transformation of a sofa into a bed from a seated position — for example, for a sofa with a wooden frame or a daybed. There is no need to pull the sofa away from the wall to move it into the bed position.



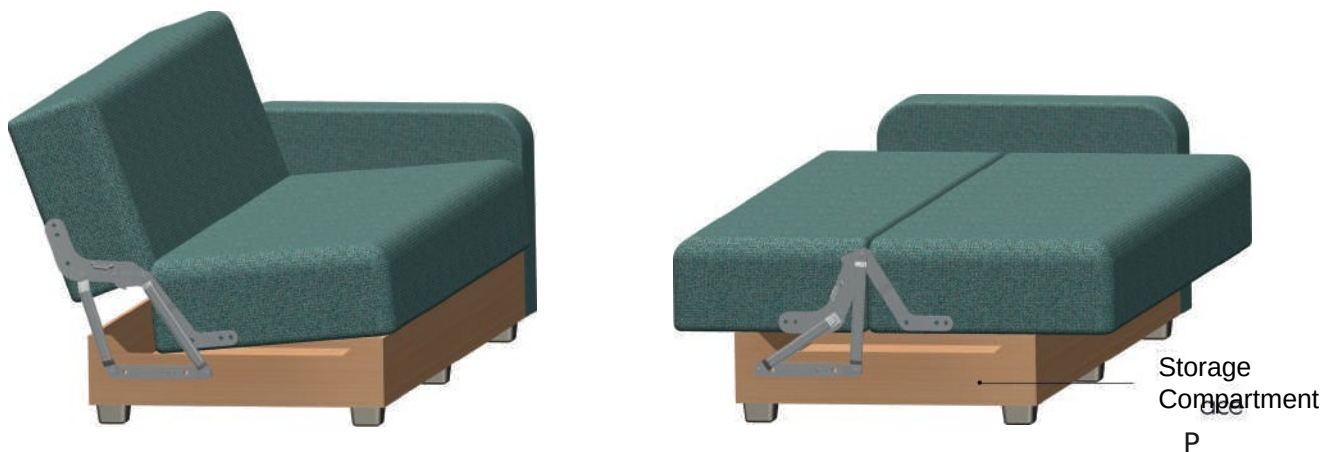
Connection Points and Technical Specifications



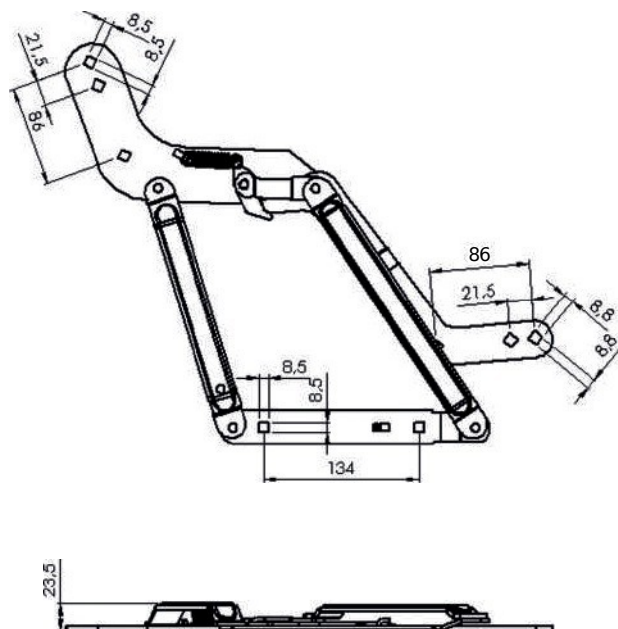


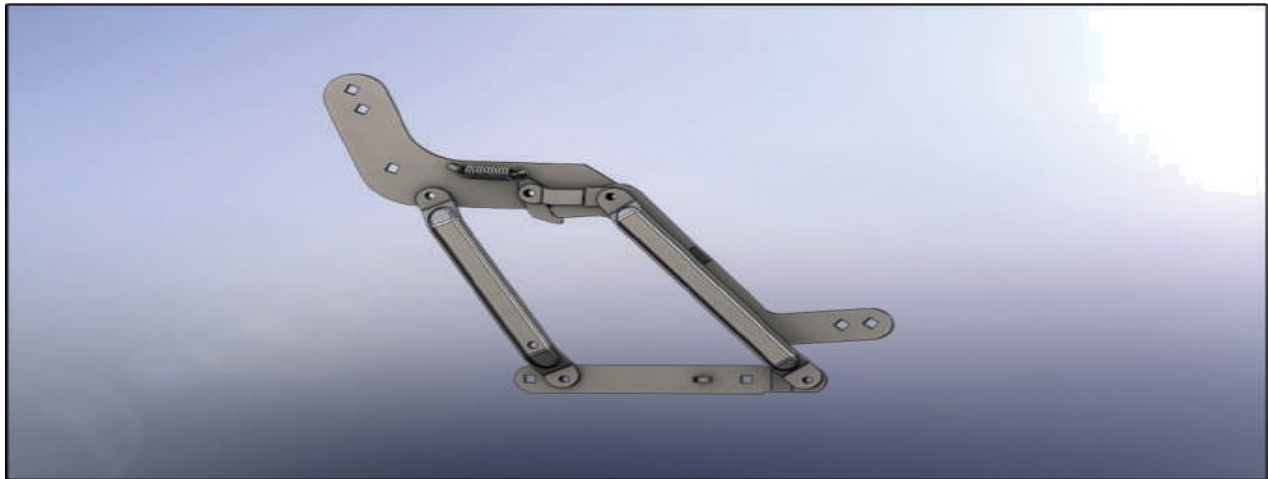
Operating Principle

Used in sofas with a wooden frame to transform the structure between a seated position and a position providing access to the storage compartment. Used in one-, two-, and three-seat sofas.



Connection Points and Technical Specifications



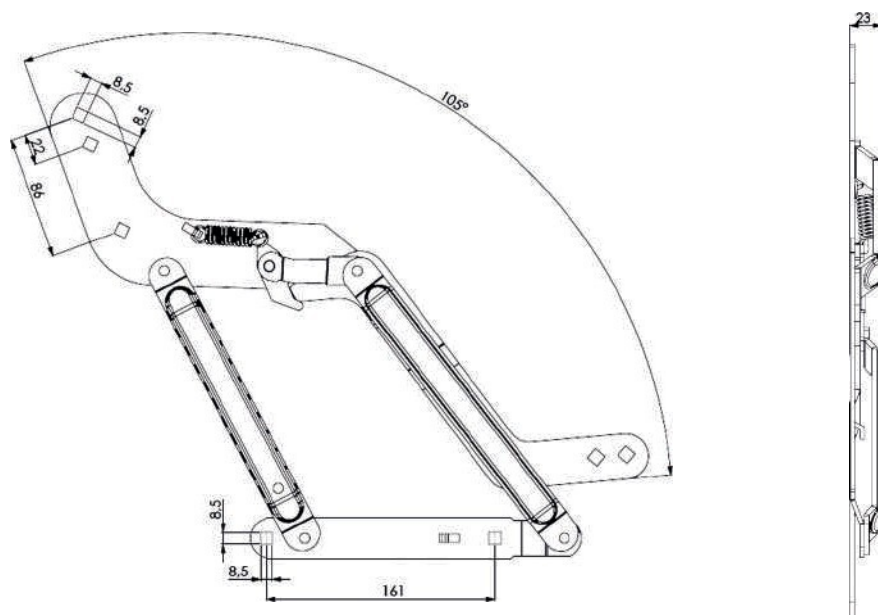


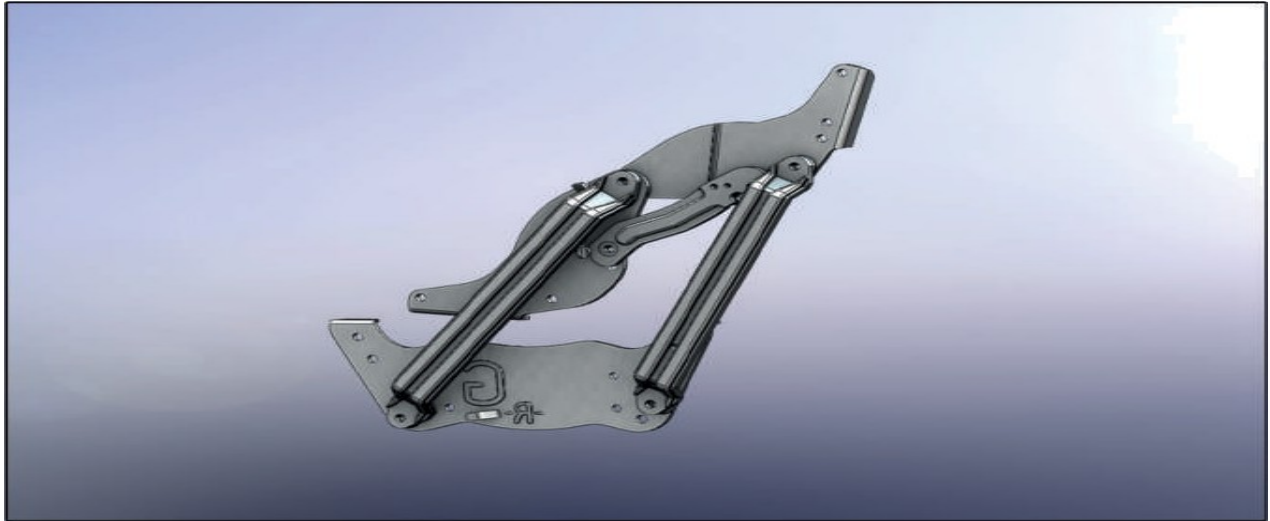
Operating Principle

Used in sofas with a wooden frame to transform the structure from a position providing access to the storage compartment into a bed or seat position. Suitable for one-, two-, and three-seat sofas.



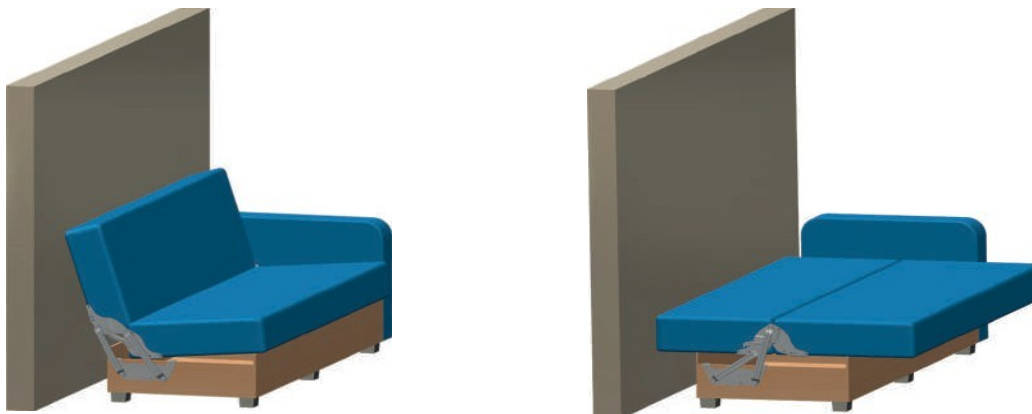
Connection Points and Technical Specifications



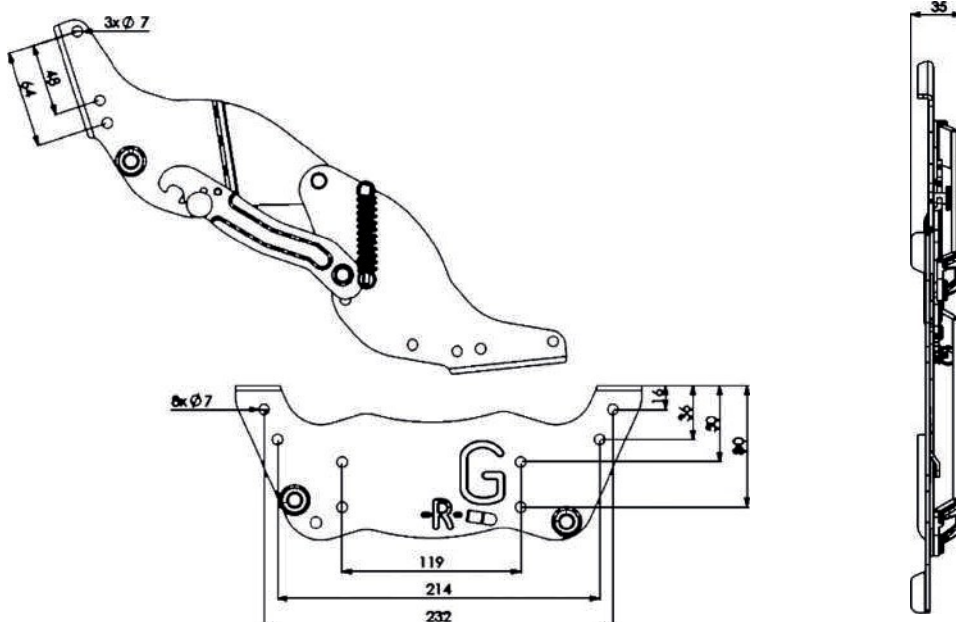


Operating Principle

Allows the structure to be transformed from a bed position with a storage compartment into a sofa position and back. Suitable for products with metal or wooden frames.



Connection Points and Technical Specifications



Hilal — Transformation Mechanism

Code: 2HM

Transformation
Mechanisms

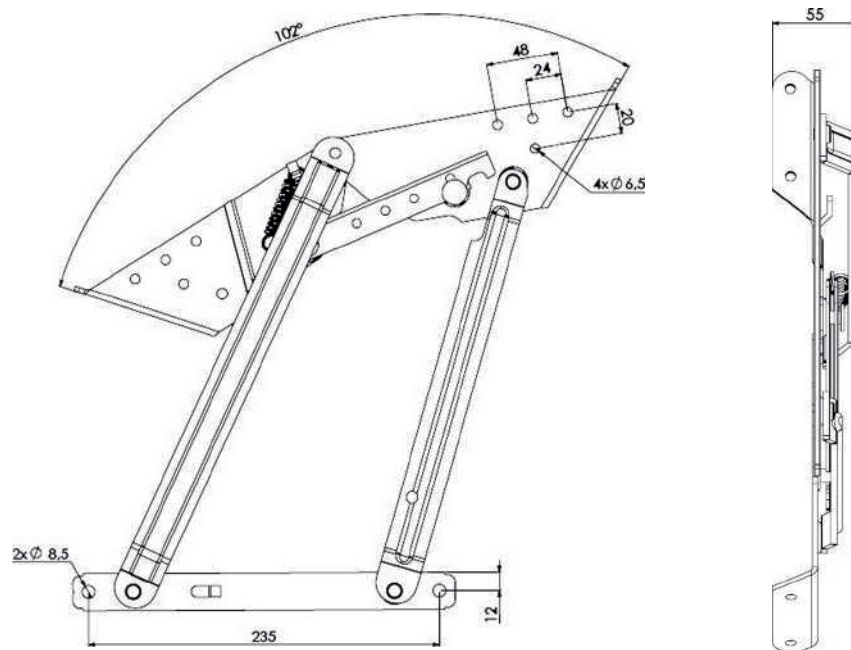


Operating Principle

Used in wooden-framed sofa beds to transform from a seated position into a folded or sleeping position.



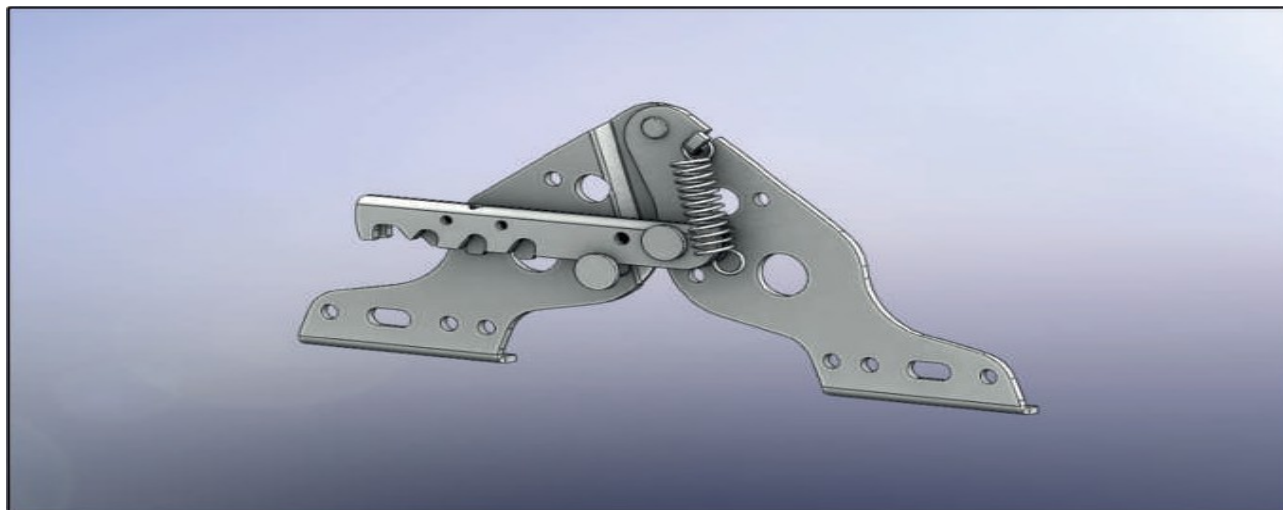
Connection Points and Technical Specifications



3 Level — Backrest Mechanism

Code: 023K

Transformation
Mechanisms



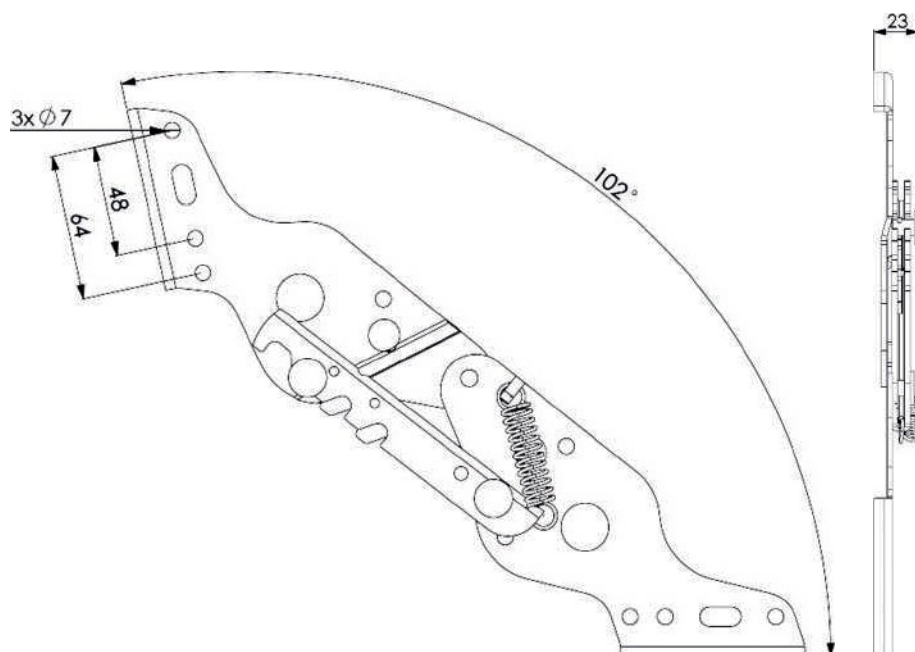
Operating Principle

Allows the sofa to be transformed into a bed with a storage compartment from a seated position — on a profile or wooden frame. There is no need to pull the sofa away from the wall to move it into the sofa, bed, or armchair position.

Step 3



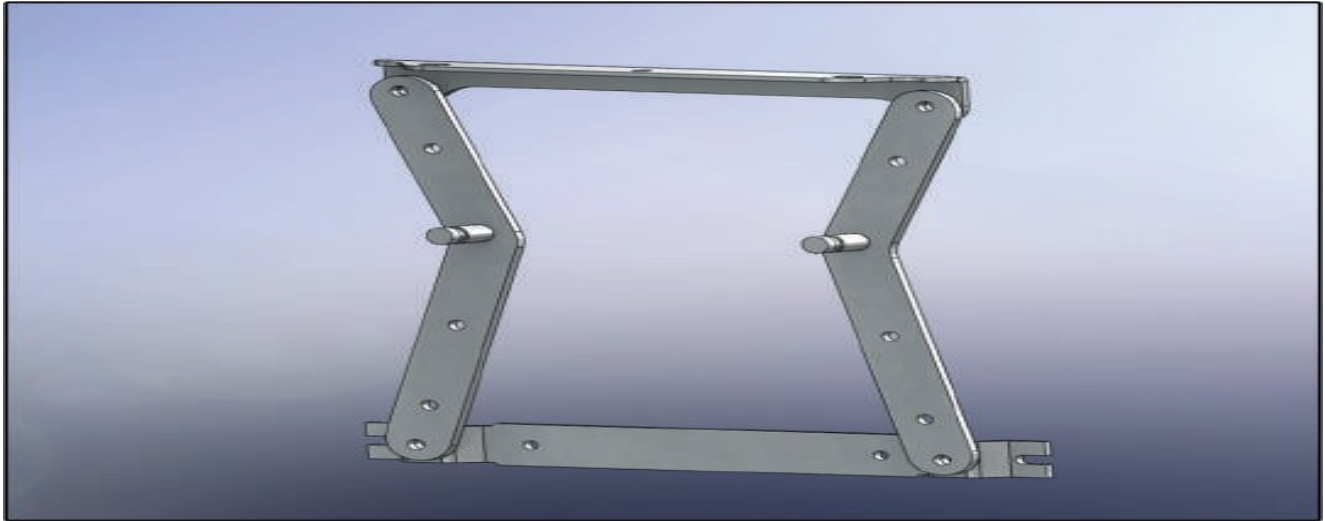
Connection Points and Technical Specifications



Z Bed — Transformation Mechanism

Code: 81ZY

Transformation
Mechanisms

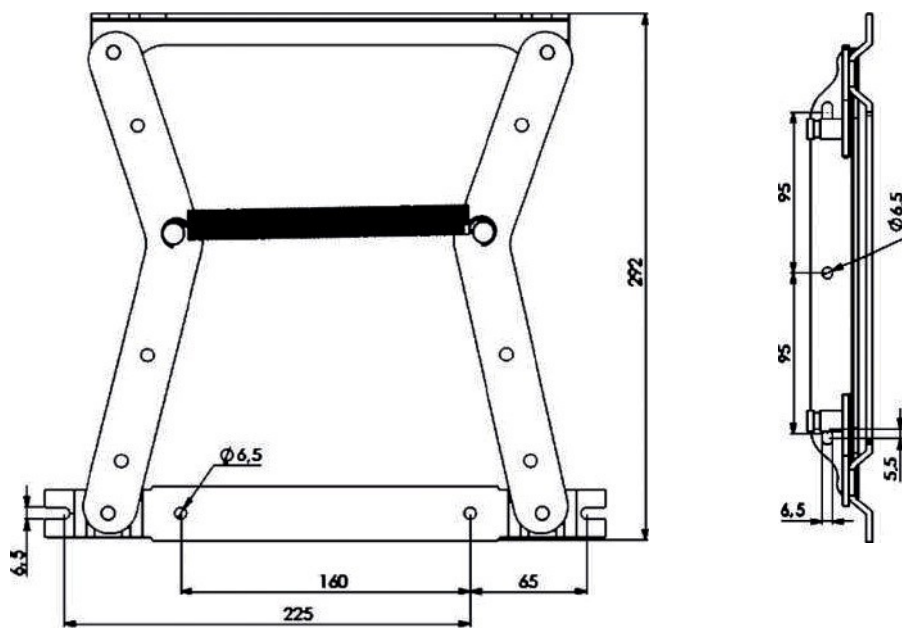


Operating Principle

By lifting the sofa seat, you free up space for the armrest, which then folds into this space, turning the sofa into a bed. Suitable for corner and three-seat sofas.



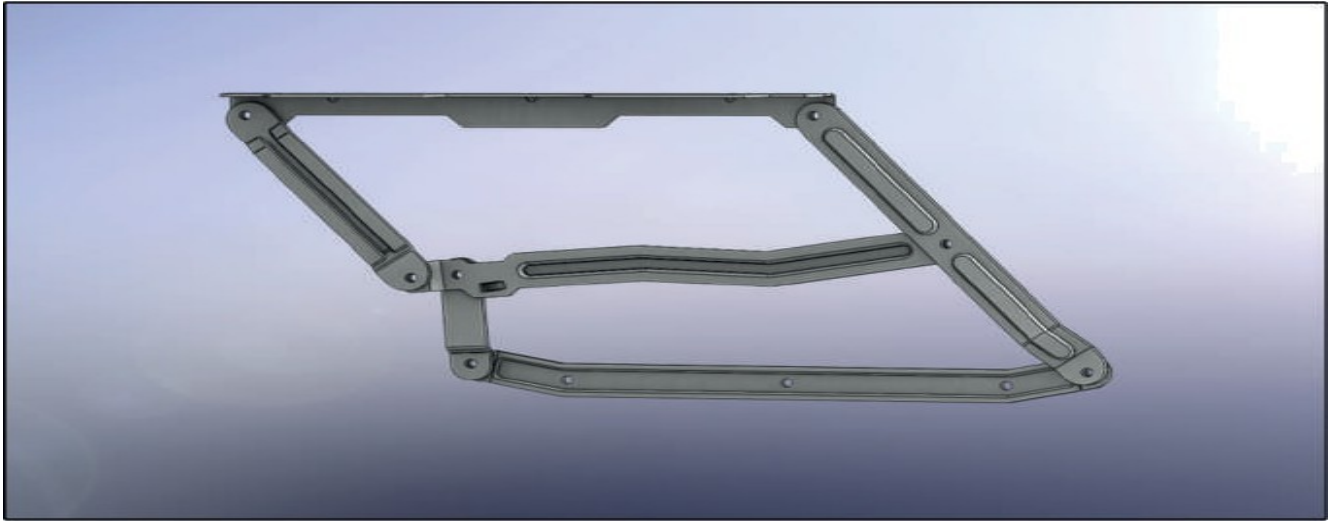
Connection Points and Technical Specifications



Corner Bed — Corner Transformation Mechanism

Transformation Mechanisms

Code: 2KT

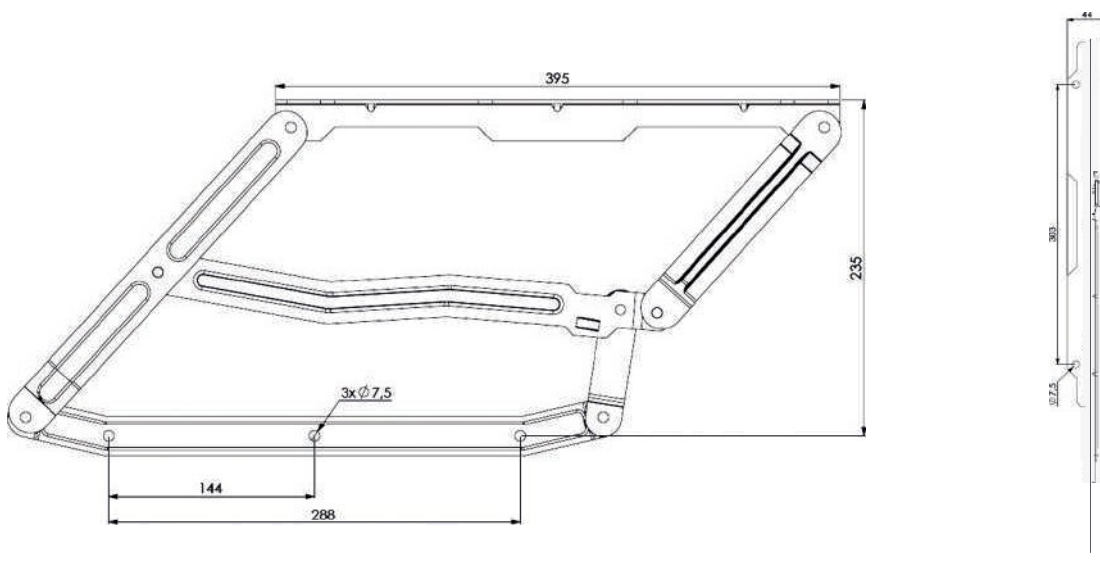


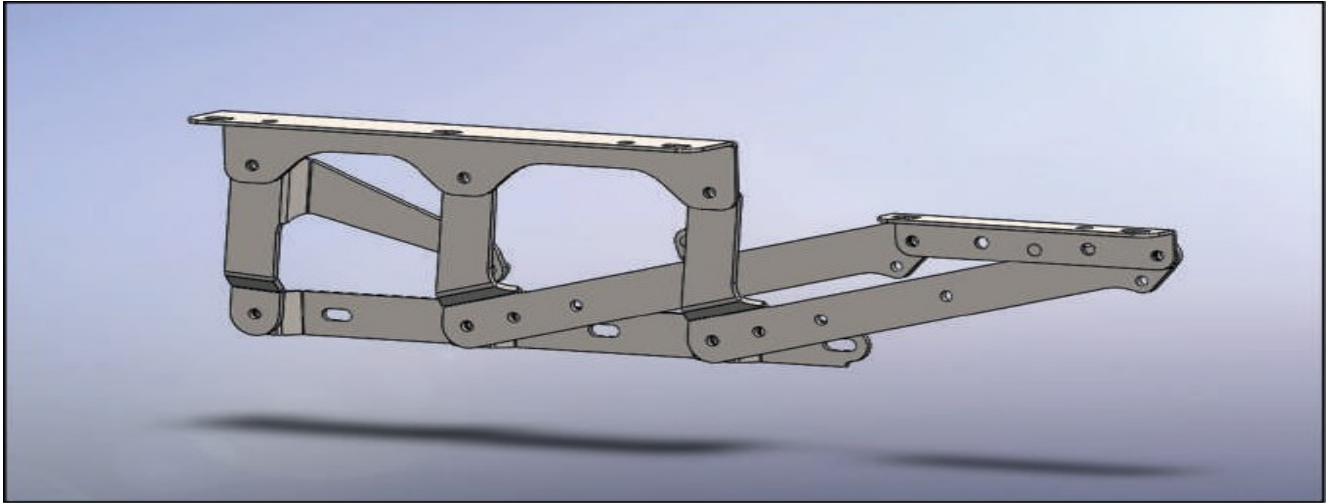
Operating Principle

Used in sofas with a wooden frame or metal profile. The sofa transforms into a bed by extending a separate section from under the seat using a mechanism that moves along an arc.



Connection Points and Technical Specifications





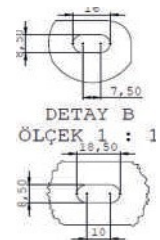
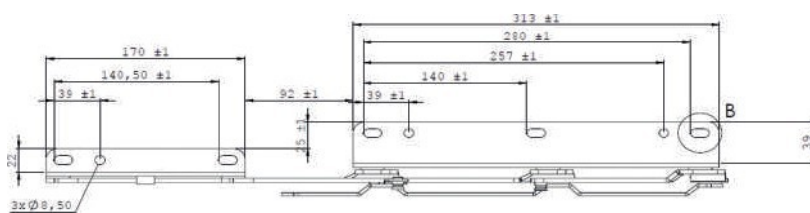
Operating Principle

Used in sofas with a wooden or metal frame to transform the sofa into a sleeping position without extending a separate section from under the seat — via an arc-shaped movement of the mechanism.

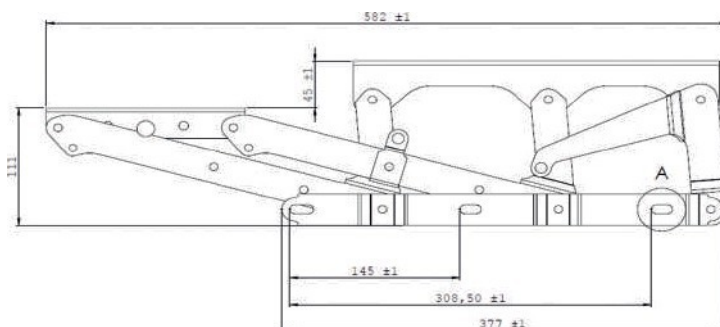


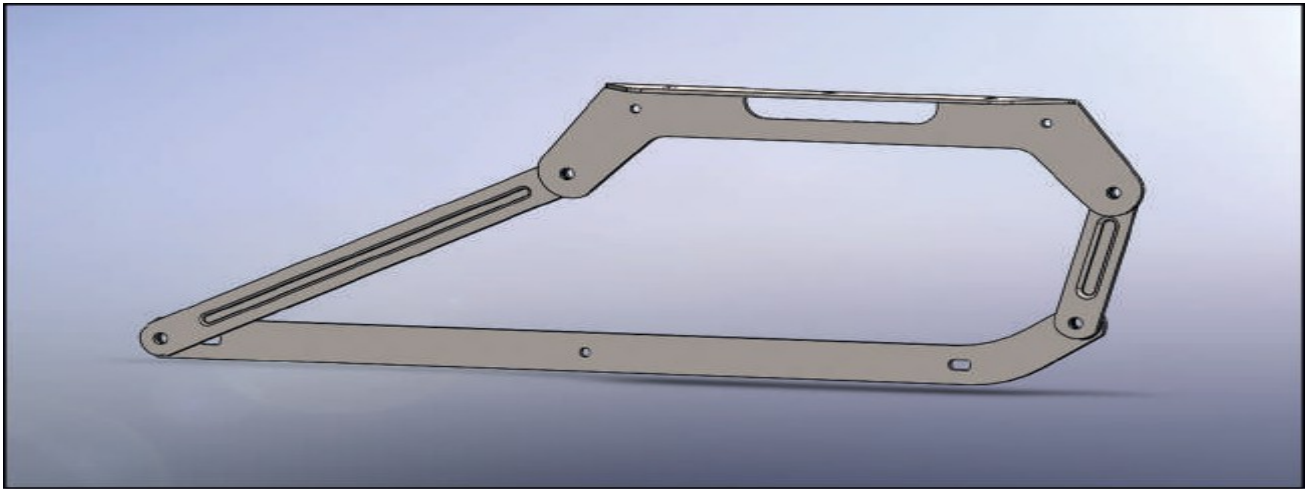
Alternative Version

Connection Points and Technical Specifications



DETAIL A
SCALE 1:1





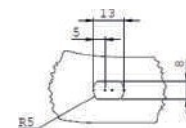
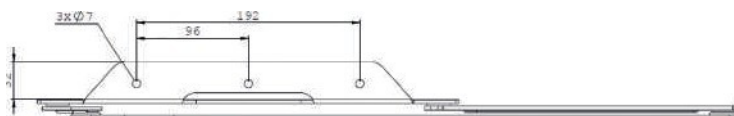
Operating Principle

Used in sofas with a wooden or metal frame to transform the sofa into a sleeping position without extending a separate section from under the seat — via an arc-shaped movement of the mechanism.

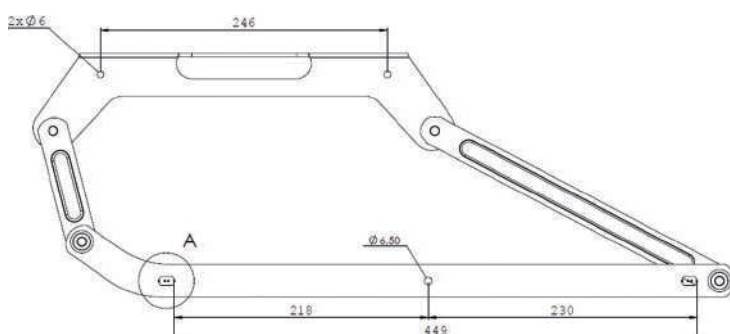


Alternative Version

Connection Points and Technical Specifications



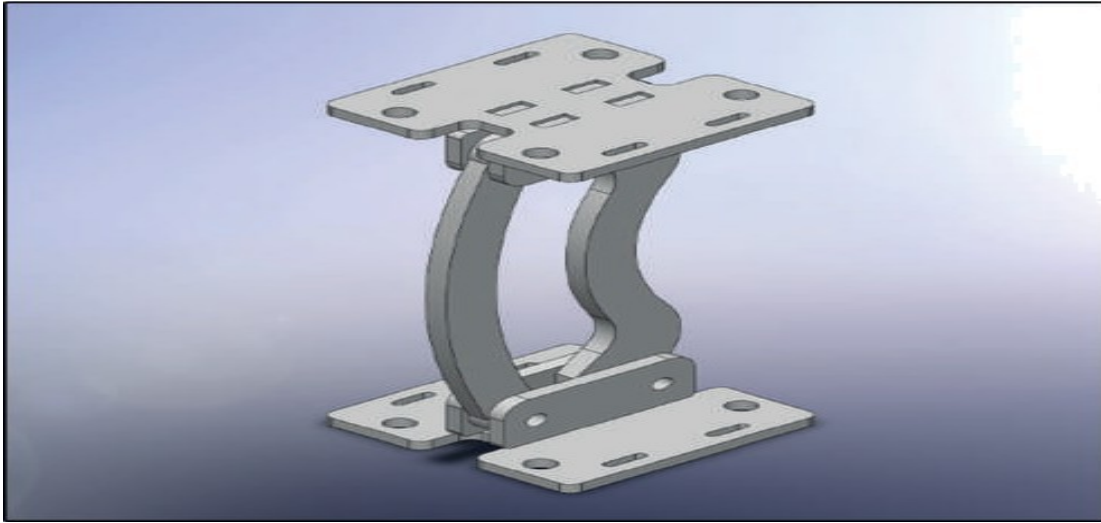
DETAIL A
SCALE 1:1



Backrest — Backrest Mechanism

Code: 1012MS

Lifting
Mechanisms

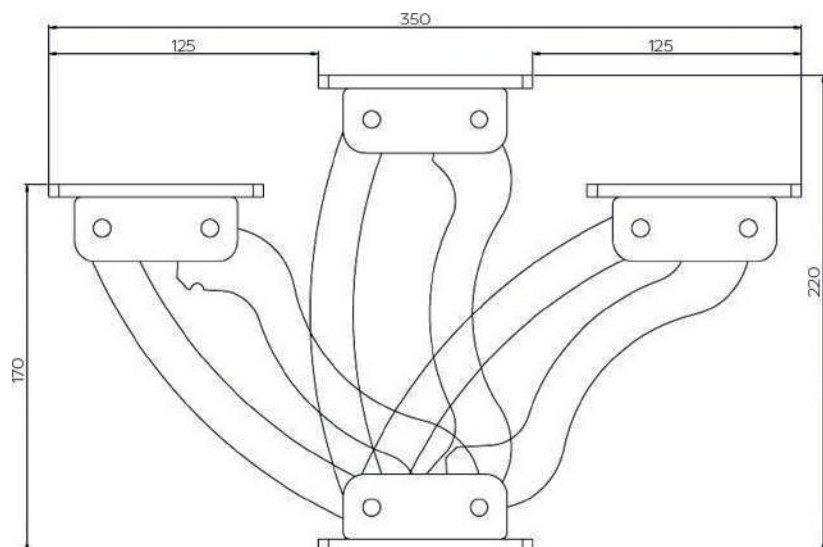
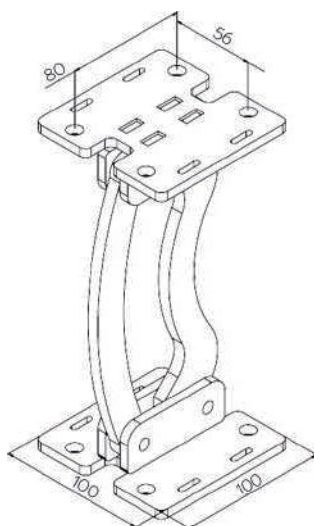


Operating Principle

Provides circular movement of the sofa backrest.



Connection Points and Technical Specifications



Sliding Connector

Code to be confirmed

Hinges and Connecting
Hardware

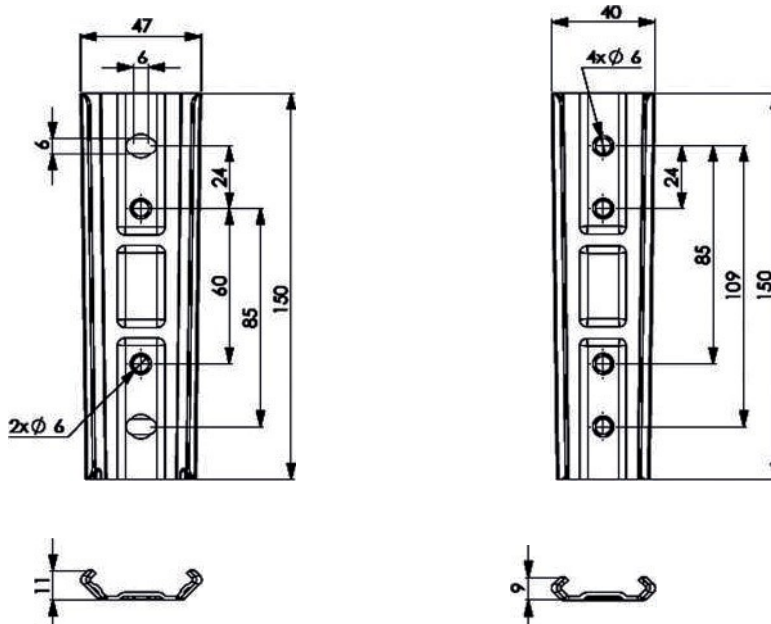


Operating Principle

Used to quickly connect and disconnect furniture elements using a sliding joint.



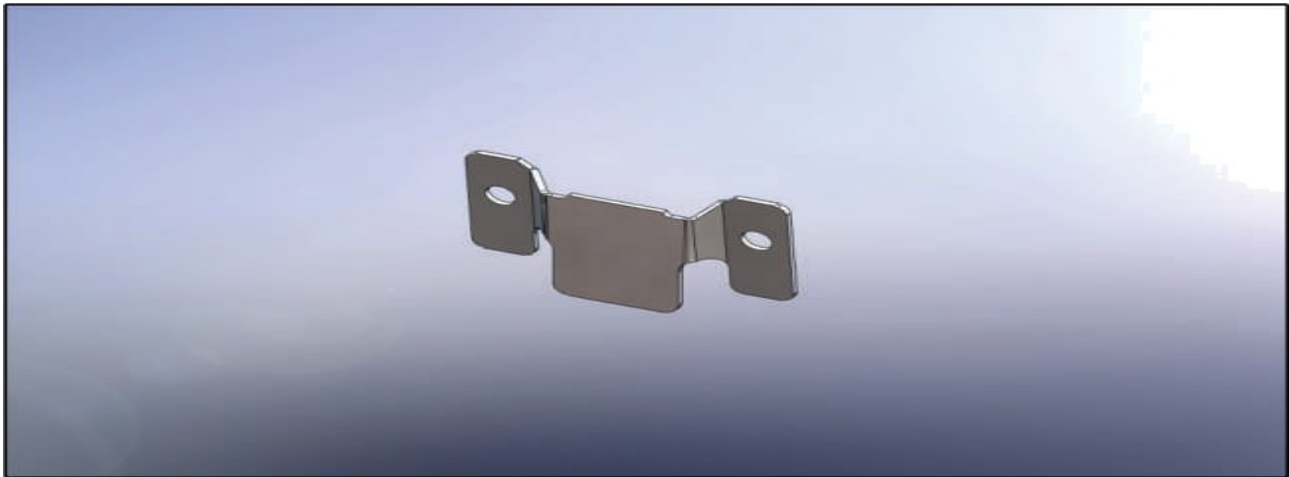
Connection Points and Technical Specifications



E-Connector

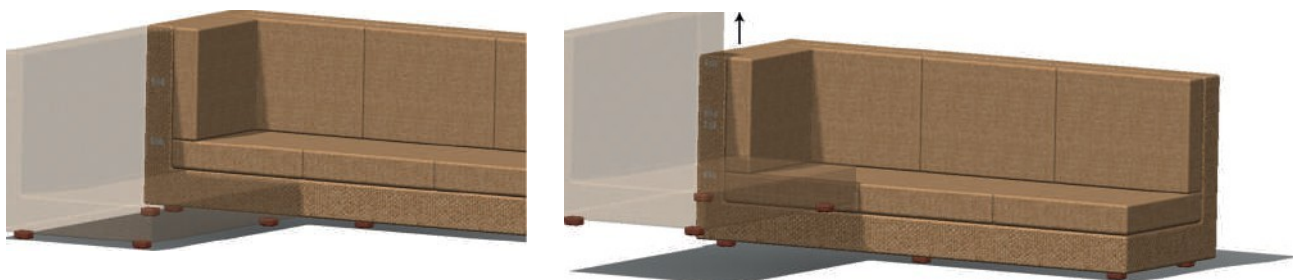
Code to be confirmed

Hinges and Connecting
Hardware

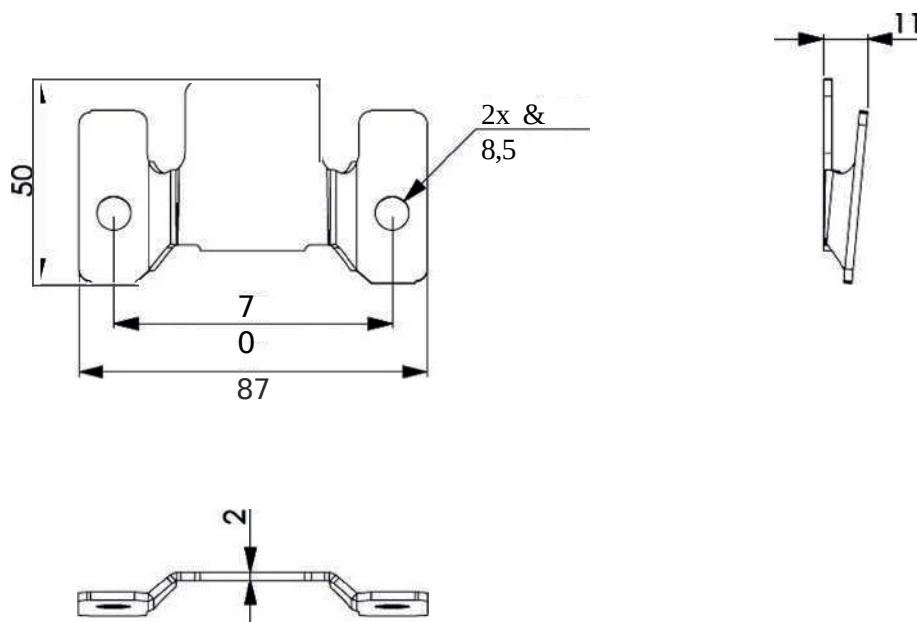


Operating Principle

The E-Connector is used to join corner elements of furniture and simplifies assembly and fixing of the structure.



Connection Points and Technical Specifications



Upholstery Block Connector

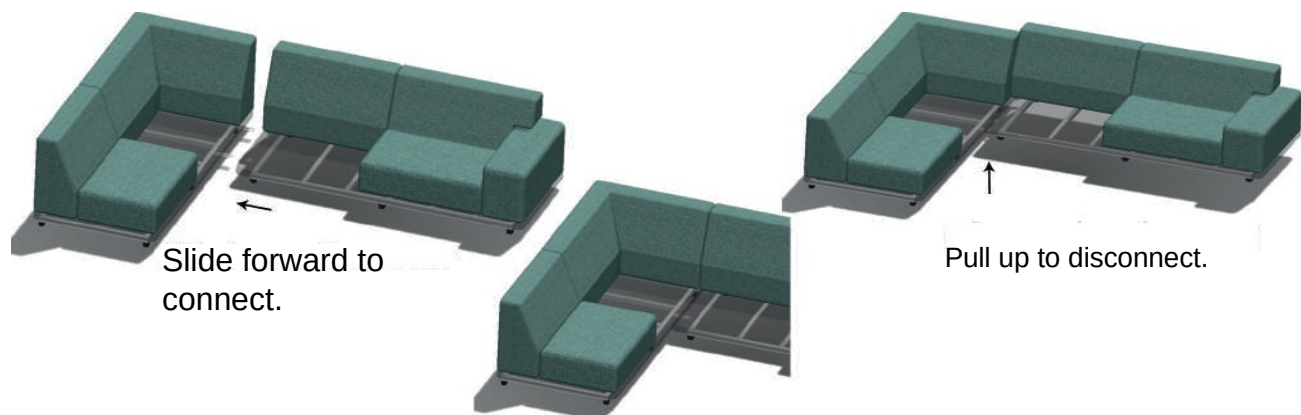
Hinges and Connecting Hardware

Code: 1014VK

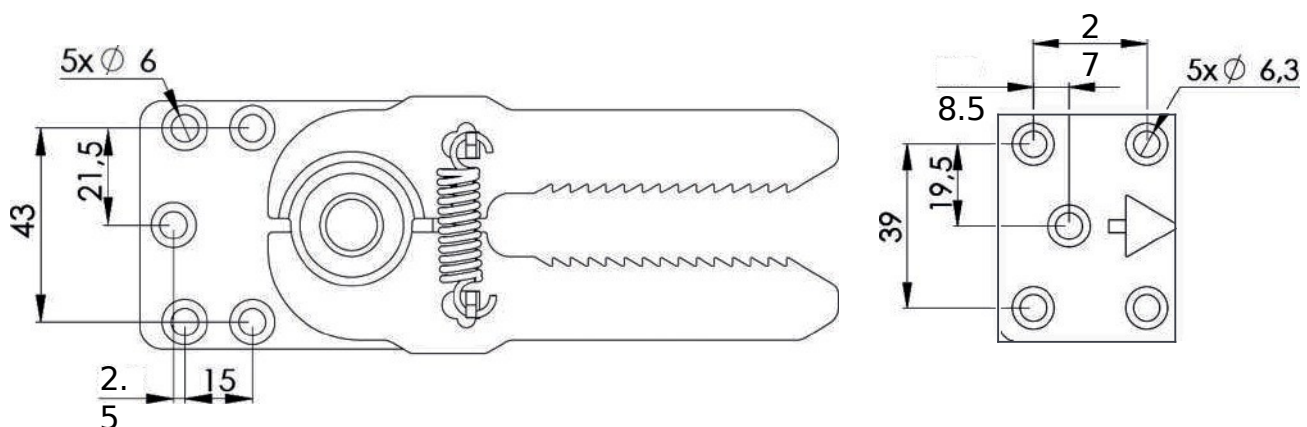


Operating Principle

Used for the discreet connection of corner elements at a set distance from each other. The connector rotates to the side, reducing the risk of damage during transportation.



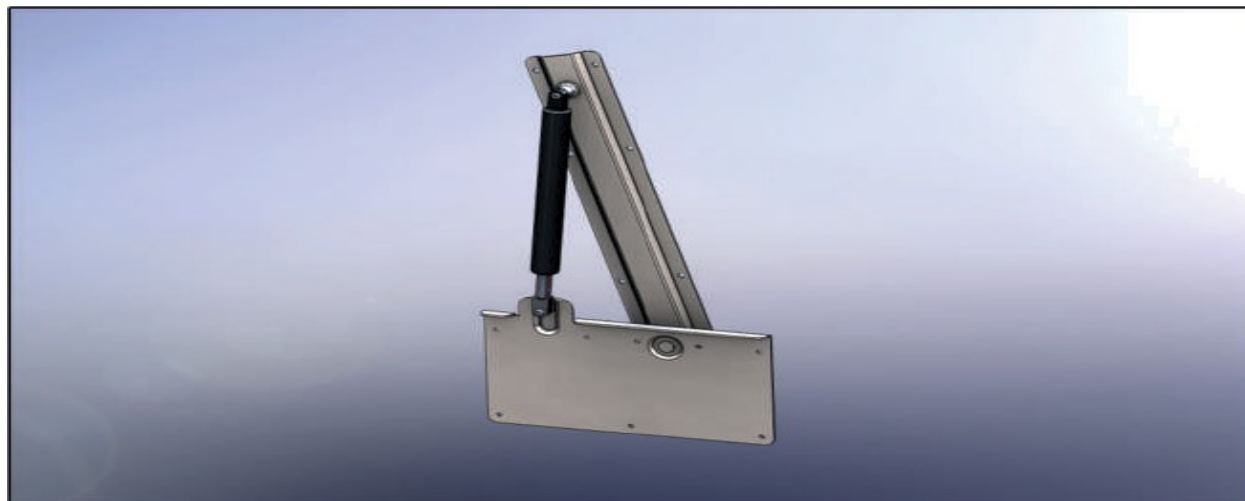
Connection Points and Technical Specifications



Wallbed — Transformation Mechanism

Code: 213DM

Bed
Mechanisms

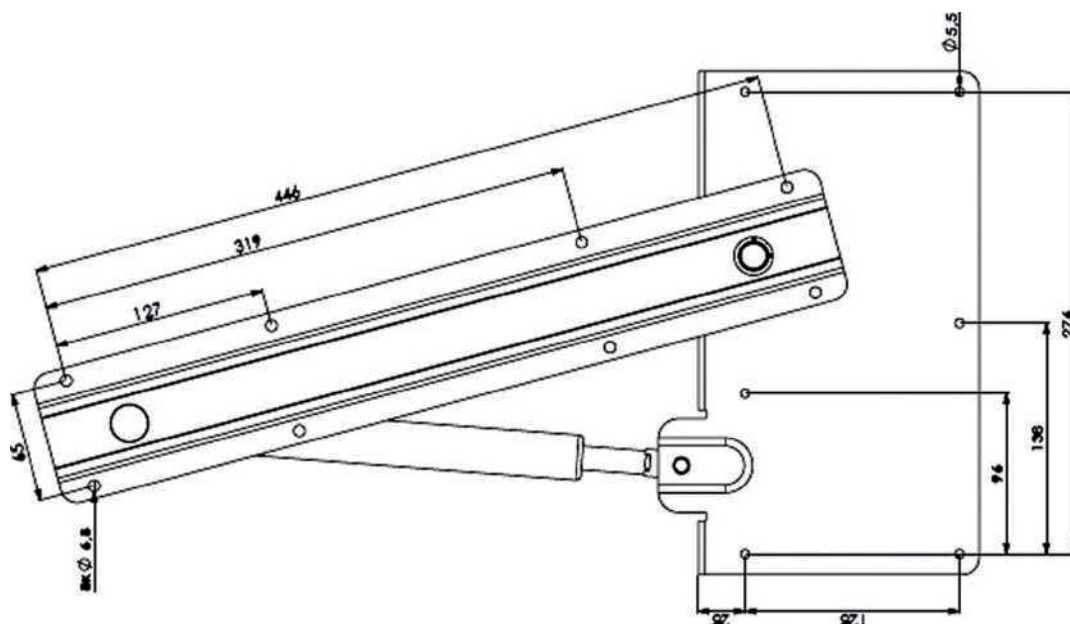


Operating Principle

Provides vertical and horizontal folding of the bed into a compact modular unit, saving living space. A simple and convenient mechanism to use. Compatible with QD-1900H series gas springs for single and double beds.



Connection Points and Technical Specifications



Coffee Table — Table Transformation Mechanism

Code: 111DSC

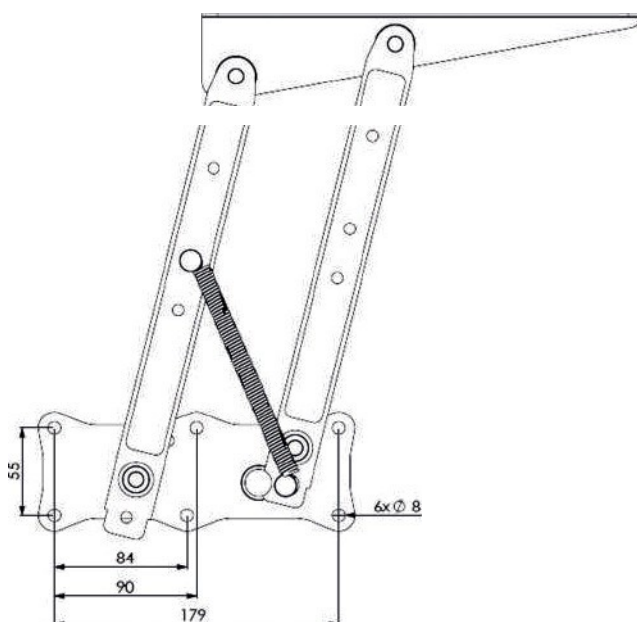


Operating Principle

When the tabletop is lifted, the coffee table turns into a work desk with a storage compartment. The spring mechanism ensures smooth opening and closing.



Connection Points and Technical Specifications



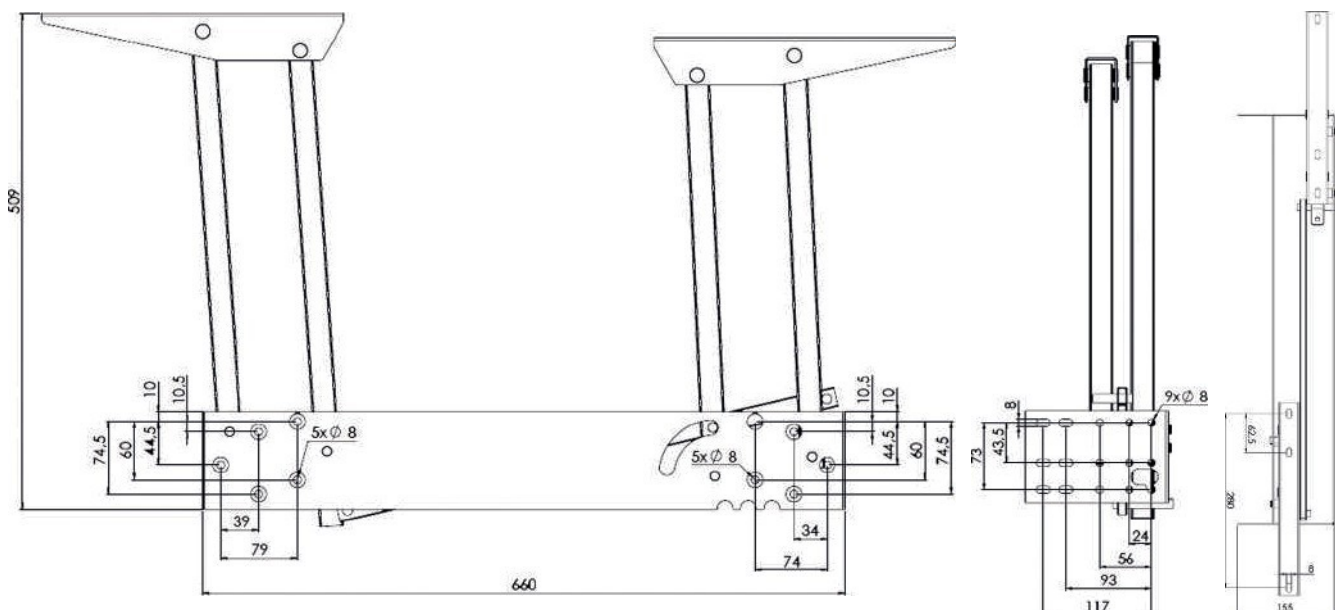


Operating Principle

When the double tabletop is lifted and the top panel is opened, the coffee table turns into a dining table with a storage compartment. The spring mechanism ensures smooth opening and closing.



Connection Points and Technical Specifications

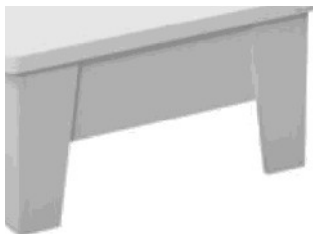


Code to be confirmed

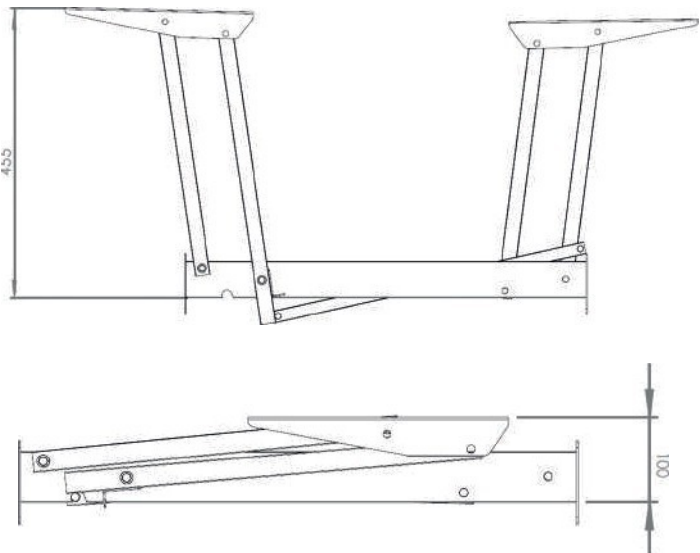
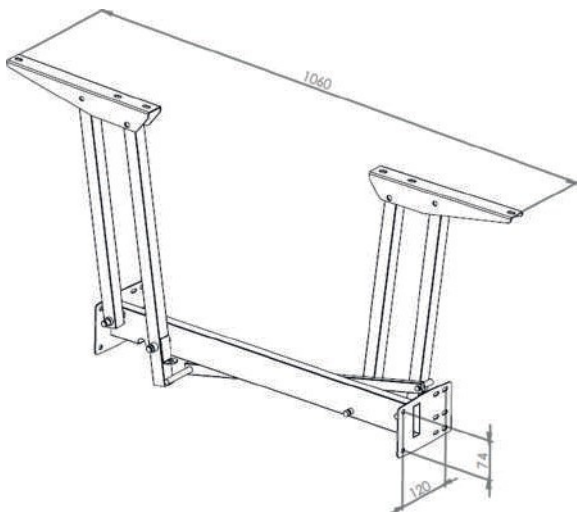


Operating Principle

When the top panel is lifted and opened, the table turns into a shelving cabinet with a storage compartment. The spring mechanism eases opening and closing.



Connection Points and Technical Specifications



Budapest — Table Transformation Mechanism

Code: 1D17BD



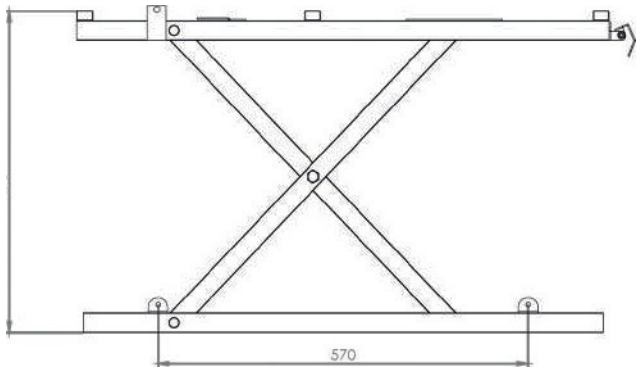
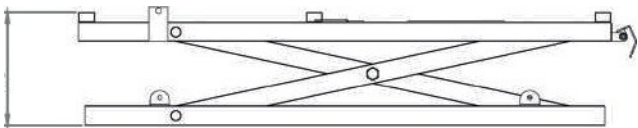
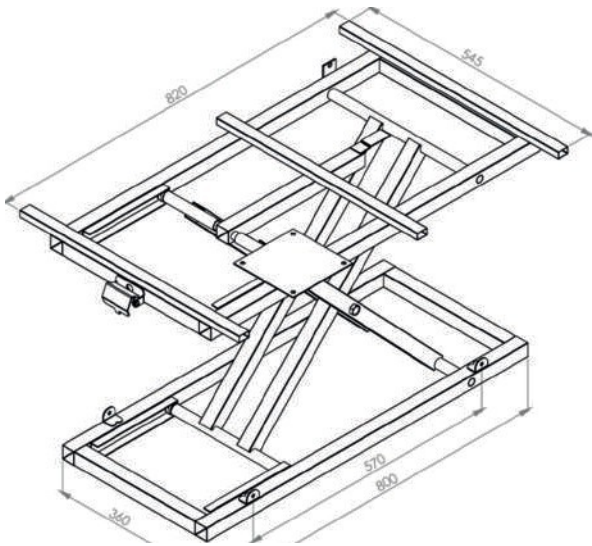
Operating Principle

Thanks to the gas spring system, the table locks at the desired height regardless of load. The tabletop also opens to increase the table's size.



Height-adjustable with locking in the desired position.

Connection Points and Technical Specifications





We pay special attention to the quality and safety of our products, applying dedicated processes at every stage of production. Where reliable locking is required to ease lifting, we manufacture gas springs with end fittings designed to the customer's requirements. End fittings are an important component of a gas spring, and they can also be custom-made to order.



Gas springs are used wherever weight or force support is needed to perform a movement. A wide range of versions is available for the user's comfort, tailored to the specific task.

Gas springs are used in furniture for homes and public spaces — for example, in kitchen and bedroom furniture, as well as in many other interior items — providing comfort and safety.



Gas springs have become the standard for tilting mechanisms and are used together with hinges and fittings. While providing a high level of comfort, they require precise calculation and careful manufacturing.

Gas Springs

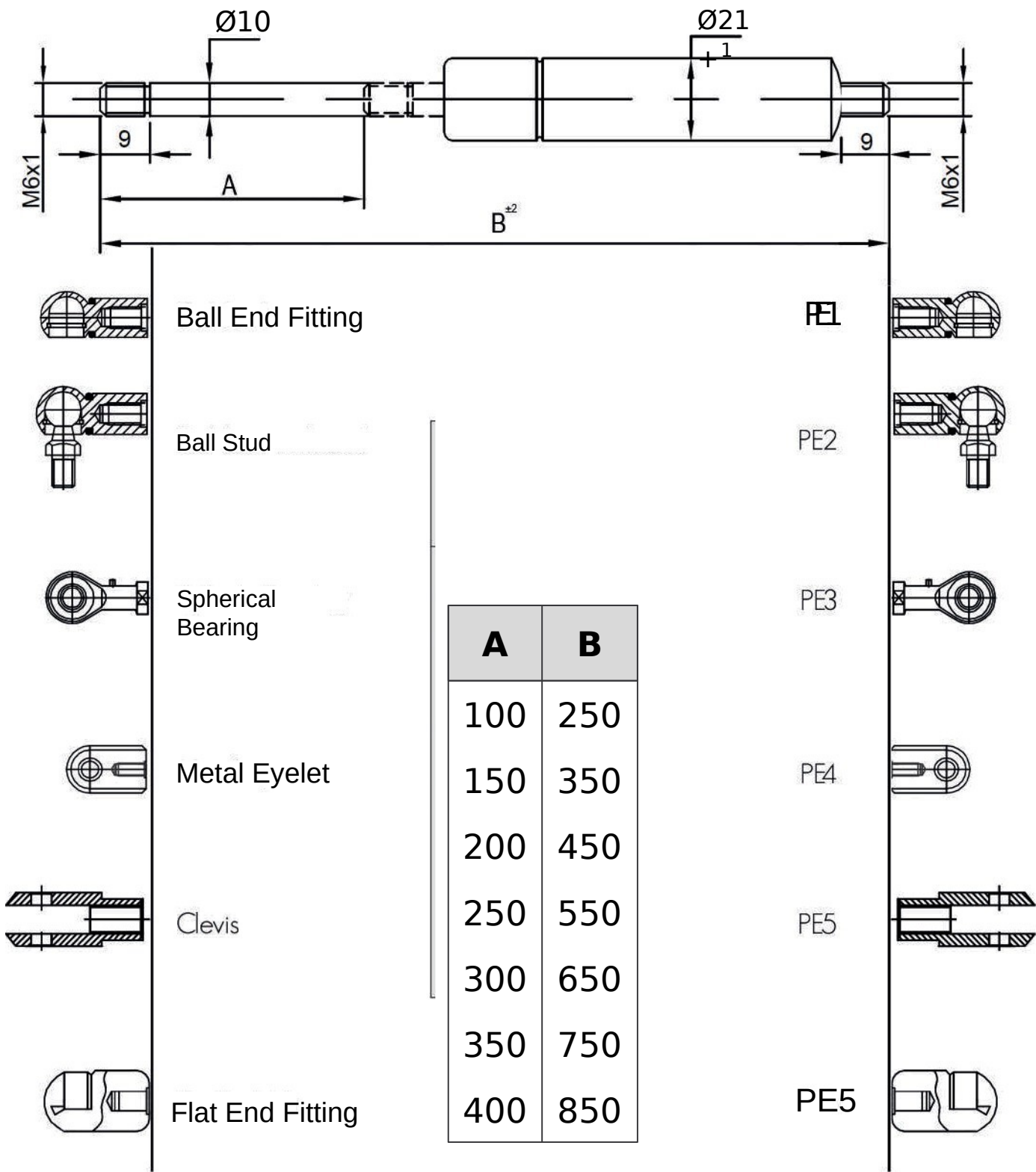
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Technical drawing of a gas spring showing dimensions: M6x1, 9, ø08, A, B, Ø18+1, 9.

	Ball Joint			FE1	
	Ball Stud			PE2	
		A	B		
	Spherical Bearing	100	250	FB	
		150	350		
		200	450		
	Metal Eyelet	250	550	FE4	
		300	650		
	Clevis	350	750	PE5	
		400	850		
	Plastic End Fitting			PE5	

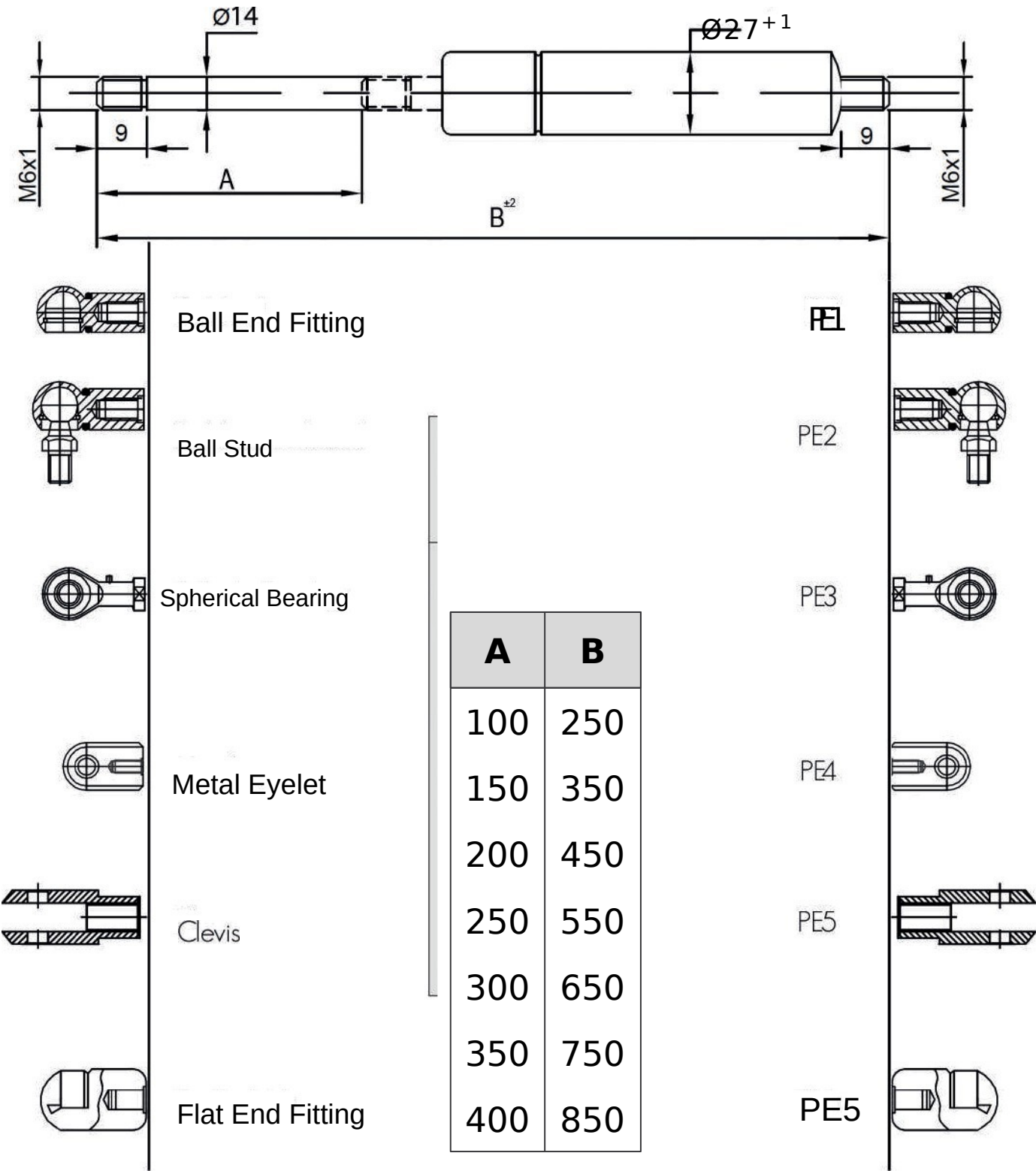
Gas Springs

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Gas Springs

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CONTACTS

OSMANLI DİYARI

TEKSTİL METAL TARIM SAN. TİC. LTD. ŞTİ.

On the market since 2016

ADDRESS

Mimar Sinan Mah., Ankara Yolu Cad. No: 412/A,
Yıldırım, Bursa, Türkiye

PHONE

+90 541 699 16 16
(WhatsApp also available)

E-MAIL

info@osmanlidiyari.com

*Contact us for consultation
and order placement*