HORIZON GAS SPRING

AUTOMOTIVE / FURNITURE / EQUIPMENT

Gas Spring Products & Applications

Lift assistance. Controlled positioning. Complete connections.
A practical product guide for B2B buyers.





LIFT / HOLD / POSITION / ADJUST

Real products.
Defined interfaces.

AUTOMOTIVE

24-brand reference guide

FURNITURE

Lifting and adjustment

EQUIPMENT

Access and positioning

Send the reference. Add quantity. Request a quote.

horizongasspring.com

BUYER CATALOGUE / 2026

Find your application.

Choose a section below. Each page number opens that section in this PDF.

Product range 03
Compression, locking, traction and gas-lift columns.

Cars, SUVs, pickups & RVs 04-05
Find the complete vehicle and the moving panel.

24-brand reference guide 06-08
Representative models, years and application part references.

Furniture & seating 09-10
Eight illustrated uses, from cabinet flaps to monitor arms.

Equipment applications 11-12
Production, service, care and outdoor equipment.

End fittings & brackets 13
15 original photographic connection examples.

Measurement guide 14
Defined dimensions, units and assembly specifications.

Structure & exploded concept 15
Understand the movement and component arrangement.

Controls & product details 16
Release, locking and connection interfaces.

Request a quotation 17
Your parts list, quantity and delivery requirements.

HOW TO USE THIS CATALOGUE

1 Find the application. 2 Match the original reference and mounting details. 3 Send your item list and quantities. The website carries the wider reference library.

PRODUCTS AT A GLANCE

Six families. Distinct functions.

From lift assistance to position control and complete mounting connections.

01



Compression gas springs

Push outward to assist opening and lifting.

Configuration: force, stroke and end fittings.

02



Lockable gas springs

Adjust position through a release control.

Interfaces: release pin, cable and end fittings.

03



Stainless gas springs

Lift assistance for demanding environments.

Materials: rod, tube and fittings specified together.

04



Traction gas springs

Pull toward retraction for tension assistance.

Configuration: pull force, travel and end threads.

05



Chair gas lifts

Adjust seat height through a central column.

Interfaces: base taper, seat taper and release pin.

06



End fittings & brackets

Connect the spring to the moving assembly.

Types: ball sockets, eyes, clevis ends and brackets.

Product photographs and component illustrations show the six families. Open a family for further product information; measurement and connection guides follow on pages 13-16.

CARS, SUVS & MINIVANS

Find the opening panel.

A hood, a full liftgate and opening rear glass use different support positions.



HOOD / ENGINE ACCESS

Fixed end on the front body; moving end on the hood. Identify the mounting side and original support.



LIFTGATE / CARGO ACCESS

Supports connect the rear body to the entire lifting gate. Identify powered or manual gate equipment.



TRUNK LID / SEDAN

Send model and year together with the lid hinge arrangement, end fittings and fitted part marking to identify the matching support.



OPENING REAR GLASS

The glass opens independently of the metal gate. Identify a glass support separately from a liftgate support.

IDENTIFY THE EXACT POSITION

Red cylinders highlight gas-spring locations in these application concepts. Send the original marking, vehicle details and photos of both ends so Horizon can confirm the matching assembly.

PICKUPS, RVS & ACCESSORIES

Beyond the passenger car.

Identify the accessory as well as the vehicle: covers and compartments have their own supports.



HARD TONNEAU COVER

Gas springs connect the bed-side structure to the lifting cover. Send the cover brand, part marking and fitted lengths.



PICKUP CAP / REAR WINDOW

Supports sit between the cap frame and opening rear panel. Identify cap model, glass/panel and end fittings.



RV / STORAGE HATCH

A support connects the compartment frame and moving hatch. Identify hatch position and support marking.



SERVICE TOOLBOX / LID

The support works inside the box between the body and hinged lid. Include box dimensions and quantity per lid.

IDENTIFY THE EXACT POSITION

Red cylinders highlight gas-spring locations in these application concepts. Send the original marking, vehicle details and photos of both ends so Horizon can confirm the matching assembly.

BRAND GUIDE / 01 OF 03

Acura to Dodge.

Two examples per brand. Bold part numbers are aftermarket identification references; click to view details.

Acura

MDX | 2014-2016
Hood | **D7173**

RDX | 2007-2012
Hatch | **C6660**

Audi

A4 | 2007-2008
Hood | **B6444**

Q5 | 2009-2017
Liftgate / Except Power Lift Gate | **D7143**

BMW

328i | 2007-2012
Liftgate | **C7073**

X5 | 2007-2013
Hood | **E6768**

Buick

Enclave | 2008-2017
Hood | **C6164**

LaCrosse | 2014-2016
Hood | **C7062**

Cadillac

Escalade | 2015-2020
Back Glass | **D6869**

SRX | 2010-2016
Hood | **C6376**

Chevrolet

Tahoe | 2015-2020
Back Glass | **D6869**

Express 1500 | 2003-2014
Cargo Van Access Panel | **C6900**

Chrysler

Town & Country | 2001-2007
Liftgate | **C4535**

Pacifica | 2004-2008
Hatch | **C6154**

Dodge

Ram 1500 | 2009-2010
Hood | **D6659**

Grand Caravan | 2001-2007
Liftgate | **C4535**

Use the aftermarket reference with the model, year and mounting position to identify the required assembly. Include the reference and quantity in your quotation request.

BRAND GUIDE / 02 OF 03

Ford to Lincoln.

Two examples per brand. Bold part numbers are aftermarket identification references; click to view details.

Ford

F-150 | 2009-2014
Hood | **E6484**

Explorer | 2006-2010
Hatch | **C6139**

GMC

Yukon | 2015-2020
Back Glass | **D6869**

Savana 1500 | 2003-2014
Cargo Van Access Panel | **C6900**

Honda

Accord | 2013-2016
Hood | **D7090**

CR-V | 2012-2016
Hatch | **C6665**

Hyundai

Santa Fe | 2013-2019
Hood | **E6877**

Tucson | 2016-2021
Liftgate | **C6450**

Jeep

Grand Cherokee | 2011-2021
Hood | **C6485**

Wrangler | 2011-2017
Back Glass | **D6678**

Kia

Sorento | 2016-2020
Hood | **E7011**

Sportage | 2011-2016
Liftgate | **D6708**

Lexus

RX350 | 2007-2009
Hatch | **D6135**

ES350 | 2013-2018
Hood | **C7156**

Lincoln

Navigator | 2007-2017
Back Glass | **D6253**

MKX | 2011-2015
Liftgate, Gas Charged / with Power Lift Gate | **C6882**

Use the aftermarket reference with the model, year and mounting position to identify the required assembly. Include the reference and quantity in your quotation request.

BRAND GUIDE / 03 OF 03

Mazda to Volvo.

Two examples per brand. Bold part numbers are aftermarket identification references; click to view details.

Mazda

CX-9 | 2007-2015
Hatch / without Power Lift Gate | **D6661**

3 | 2010-2013
Trunk Lid | **F6786**

Mercedes-Benz

C300 | 2008-2012
Hood | **C6190**

ML350 | 2003-2005
Hatch | **C6114**

Nissan

Rogue | 2008-2013
Liftgate | **D6269**

Titan | 2004-2015
Hood | **E4182**

Ram

1500 | 2011-2018
Hood | **D6659**

2500 | 2015-2018
Hood | **D7018**

Subaru

Forester | 2014-2018
Hood | **C6002**

Outback | 2010-2014
Hood | **D6837**

Toyota

Camry | 2018-2021
Hood | **C7170**

Tundra | 2007-2021
Tailgate | **D7066**

Volkswagen

Golf | 2014
Hatch | **D6275**

Tiguan | 2017-2020
Hood | **B7123**

Volvo

XC60 | 2010-2017
Hatch | **C6677**

XC90 | 2003-2014
Hatch | **C6133**

Use the aftermarket reference with the model, year and mounting position to identify the required assembly. Include the reference and quantity in your quotation request.

FURNITURE APPLICATIONS

Lift panels. Open storage.

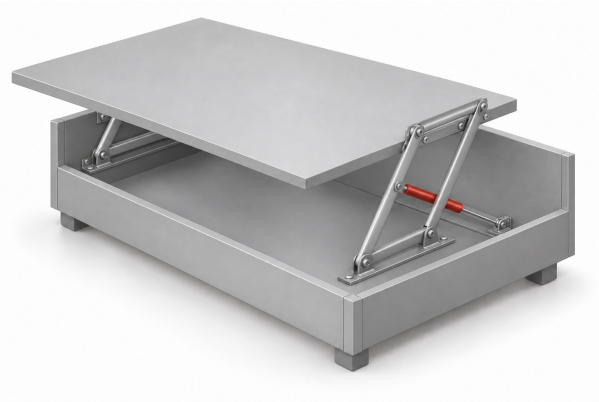
Opening assistance for furniture fronts, tops and hinged storage frames.



CABINET FLAPS

For upward-opening kitchen, office and storage fronts. Panel geometry and hinge layout determine the mounting arrangement.

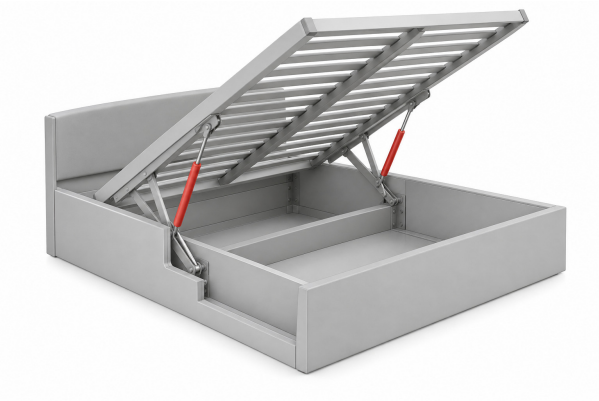
Product: compression spring; sockets or bracket-mounted ends.



LIFT-TOP / ADJUSTABLE TABLES

A linkage raises and brings the tabletop forward. Height-adjustable desk columns are a separate mechanism.

Product: lift-assist spring matched to the tabletop linkage.



STORAGE BEDS / OTTOMANS

The hinged bed frame lifts to reveal storage. Frame weight and linkage geometry govern the support arrangement.

Product: compression spring; force and ends suit the bed fitting.



FOLDAWAY / WALL BEDS

Counterbalance fittings help move the bed between stored and open positions. Systems differ by cabinet and linkage design.

Product: counterbalance gas spring matched to the fitting number.

Application concepts show the mechanism and spring location. See pages 13-16 for connections, dimensions and controls; the quotation checklist is on page 17.

FURNITURE APPLICATIONS

Adjust comfort. Position work.

Columns, locking supports and counterbalance arms perform different jobs.



RECLINERS / ADJUSTABLE SEATING

A release control allows backrest or seating adjustment. Locking behavior is specified separately from spring force.

Product: lockable spring with compatible release and end fittings.



OFFICE CHAIRS

A central column adjusts seat height between the base and seat mechanism. Both taper interfaces must fit the chair.

Product: chair gas lift; defined travel and release-pin interface.



WORK STOOLS / DRAFTING CHAIRS

The gas column sets working height. Column length and travel must suit the base, footring and seat mechanism.

Product: seat-height column with matching base and seat tapers.



MONITOR / SUPPORT ARMS

Counterbalance helps position a screen through a linked arm. The model exposes the internal spring for clarity.

Product: compact gas spring matched to arm geometry and payload.

Application concepts show the mechanism and spring location. See pages 13-16 for connections, dimensions and controls; the quotation checklist is on page 17.

EQUIPMENT / PRODUCTION AND SERVICE

Access the working equipment.

Lift assistance for service panels, battery covers and inspection guards.



AGRICULTURAL MACHINERY

Engine covers and service panels use separate supports from cab doors and opening windows. Identify the exact position.

Product: compression spring with connections for the panel mounts.



CONSTRUCTION / SERVICE HOODS

A compact support assists the engine-access cover. Powered working cylinders serve a different function.

Product: hood gas spring matched by equipment and end fittings.



FORKLIFTS / BATTERY ACCESS

Lift assistance for a hinged seat or battery-cover assembly during service. Cover arrangements vary by truck model.

Product: compression spring matched to the cover and hinge layout.



MACHINE GUARDS / COVERS

Supports assist an opening guard or inspection cover. The machine's required guarding and interlocks remain essential.

Product: lift-assist spring with suitable force and mounting ends.

These concepts show cover-assistance gas springs. See pages 13-16 for connections and product details; equipment-specific requirements form part of the quoted assembly.

EQUIPMENT / CARE AND OUTDOORS

Support access and adjustment.

Different equipment needs different locking behavior, interfaces and environmental requirements.



CARE / BACKREST ADJUSTMENT

A release-controlled support positions the hinged backrest. Locking load and spring force are separate specifications.

Product: lockable spring with device-specific release and ends.



OVERBED / HEIGHT-ADJUSTABLE TABLES

A guided column adjusts tabletop height. The cutaway reveals the internal spring; actual housings are enclosed.

Product: column gas spring with defined travel and control behavior.



BOAT / STORAGE LOCKERS

Lift assistance for hinged storage lids between the locker frame and moving lid. Exposure affects the entire assembly.

Product: stainless configuration with specified tube, rod and fittings.



OUTDOOR / EQUIPMENT ENCLOSURES

Gas springs assist a hinged weather cover or enclosure lid. Materials and finish must suit its operating environment.

Product: compression spring with suitable finish and connection set.

Application concepts illustrate function and mounting location. Medical components follow the device specification; marine and outdoor assemblies require defined material and exposure conditions.

END FITTINGS & BRACKETS

Choose the connection.

Use the illustration ID when discussing a shape. Confirm the thread, hole/ball size, width and mounting offset.



01 Bracket + ball joint



02 Bracket + ball joint



03 Ball socket + stud



04 Clevis ends



05 Clevis ends



06 Eye ends



07 Bearing eyes



08 Threaded clevis ends



09 Threaded eye ends



10 Bracket-mounted fitting



11 Pivoting brackets



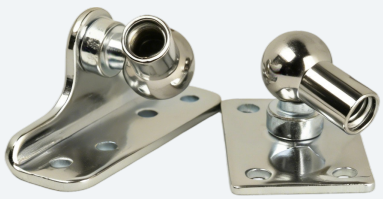
12 Angle brackets



13 Pivoting brackets



14 Ball sockets



15 Bracket + ball joint

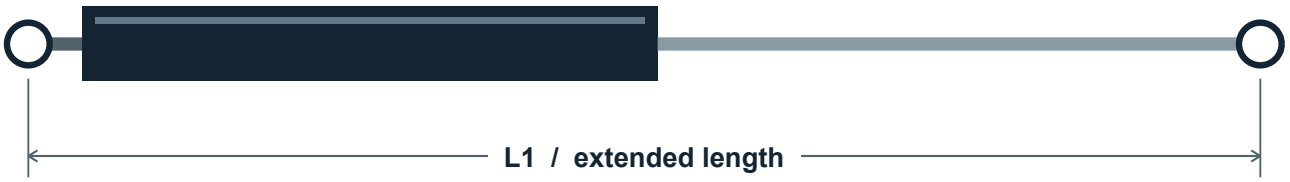
Use illustration IDs 01-15 to describe the connection shape. Agree the ordering specification and material grades for both ends with Horizon.

SPECIFY THE ASSEMBLY

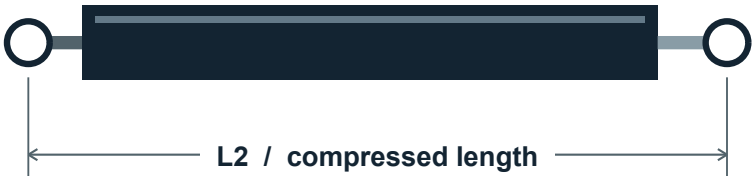
Define the complete assembly.

The dimensions below use the centers of the two eye fittings as their mounting references.

FULLY EXTENDED



FULLY COMPRESSED



STROKE

S = L1 - L2

Eye-to-eye concept, not to scale. Ball-center and other fitting datums must be stated on the item drawing.

CONFIGURATION	SYMBOL / UNIT	DEFINITION
Installed length	L1 / L2 · mm	Fully extended / compressed lengths, including both end fittings, measured from the same mounting references.
Stroke	S · mm	The difference between L1 and L2 for the same complete assembly.
Tube / rod	D / d · mm	Tube outside diameter and rod diameter are separate dimensions.
Extension force	F1 · N	State the force, measurement position and test conditions for the selected configuration.
End connections	A / B	Define each fitting, thread, ball or hole size, and material on the item drawing.

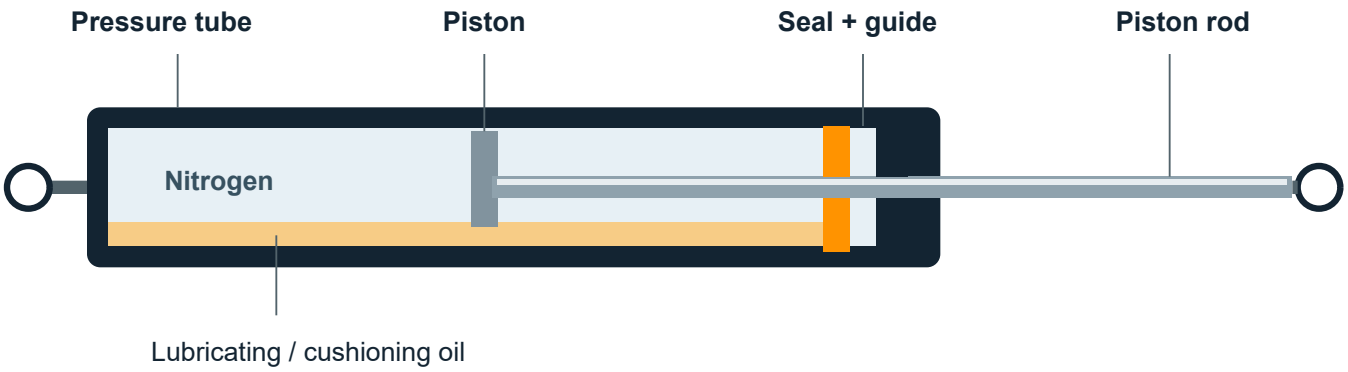
A quoted configuration brings these fields together in one item specification. Its force and dimensions apply to that assembly.

TECHNICAL OVERVIEW

Inside the movement.

A conventional compression gas spring, shown as a simplified section and component concept.

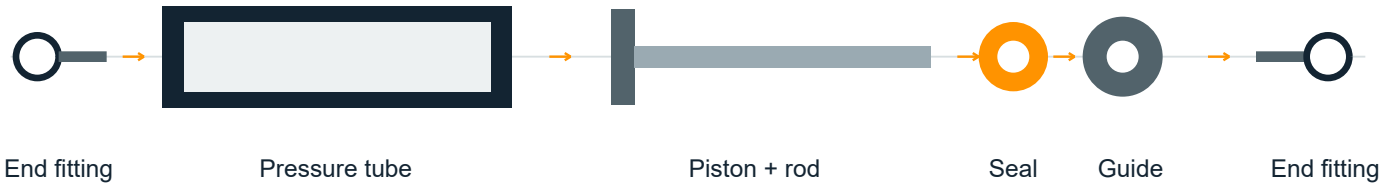
SIMPLIFIED SECTION



Pressure provides outward force.

The piston flow path, seal and guide help control movement. Internal construction varies with the product design.

EXPLODED COMPONENT CONCEPT



READING THE CONCEPT

The section explains component roles; the separated view shows their arrangement. These are not a product-specific assembly drawing or a service procedure.

Use the agreed item drawing for construction details. Do not open a pressurized gas spring.

CONTROLS & INTERFACES

Details that define the assembly.

Identify the release control, both ends and the required behavior before matching a unit.



LOCKABLE ASSEMBLY

Release. Adjust. Hold.

Cable-operated release shown. Confirm control travel, connection and locking behavior.



Release pin / thread / nut
Match the control interface and access.



Mounting interface
Match hole, width, thread and center position.



Articulating connection
Match ball/socket and retention arrangement.

Extension force and locking load are separate specifications. Identify elastic or rigid locking and the required load direction.

SUPPLY & QUOTATION

Request a quotation.

Send your item list to discuss the configuration, inspection requirements and packing.





Inspection requirements

Identify force, length, stroke and the agreed checking method.

Product protection & packing

Match labels, individual protection, carton quantity and destination.

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Horizon Gas Spring Co., Ltd.

01 Reference + quantity

Complete part / OE number; quantity per item.

02 Application

Vehicle, furniture mechanism or equipment + position.

03 Dimensions + force

Length, stroke and force marking with units.

04 Both ends

Photos plus thread, ball/hole size and width.

Multiple items? One spreadsheet, one row per part. Add delivery destination and label each photo or drawing with the same reference.