

OPERATION & MAINTENANCE MANUAL



EASI-RISER CYCLE PARKING



Broxap Limited, Rowhurst Industrial Estate, Chesterton, Newcastle-under-Lyme, Staffordshire ST5 6BD.
Telephone: 01782 571660 • Fax: 01782 562546 • Email: shelters@broxap.com • Web: www.broxap.com

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Introduction

Broxap shelters, canopies, cycle parking and covered walkways have been supplied to designs that have been proven over years of development and installation.

Our “Easi-Riser” cycle parking units are supplied in a base material of mild steel with sections and grades of material being used that ensures they are fit for purpose for many years to come.

To aid in ensuring the maximum life can be realised with the product, along with minimising the costs for major refurbishment, this manual has been created to assist in the ongoing maintenance requirements along with identifying important points that should be followed at all times.

Broxap are ISO9001 (Quality), ISO14001 (Environmental) and ISO45001 (Health and Safety) certified through the BSI.

These 3 standards have been utilised during the design, manufacture, processing and delivery of the product. Our commitment to providing a service of quality that takes into consideration the effects of the environment during its manufacture and life plus the health and safety of the Customers has been fully considered.

Other standards may have also been considered during product design and manufacture of these products.



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Health & Safety Information

This product is supplied with installation instructions and user instructions. These should be followed at all times.

- Please refer to Easi-Riser Two-Tier Cycle Parking Operating Instructions for details.
- Please refer to Easi-Riser Two-Tier Cycle Parking Installation Instructions for details.

In addition to the product-specific instructions provided, the following comments should be noted :

- Broxap cannot accept any responsibility for any damage or injury to persons or property as a result of not operating our products in a safe and proper manner.
- Should any structural concerns, product failure, product quality or issues relating to ongoing maintenance and repair of the product be necessary, then it is strongly recommended that in the first instance contact is made directly with Broxap.

Materials & Processes

As the product is designed to utilise various customer requirements, the following is a list of materials and processes that could have been used during its processing:

Materials

- Mild steel in grades S235, S275 or S355
- Extruded Aluminium
- Fixings in Grade 8.8 or 10.9 in steel or stainless steel
- Rivets and / or TekScrews
- Ground anchors – Sleeve or resin type

Processes used

- Bending, forming, fabrication and welding
- Galvanizing

Cleaning, Maintenance & Repair

This section gives a generic overview of the inspection and cleaning regimes, solutions, methods and techniques which will preserve the aesthetic finish of the product.

Inspection & Cleaning

To maximise life expectancy the product should be visually inspected, on a regular basis, for any signs of damage, vandalism, breakdown of surface finish, build-up of salt, dirt or atmospheric residue, and loose fixings.

During these inspections, should any concerns be noted, then the Customer's attention is brought to the following pages whereby suitable maintenance and repair methods are described for the various materials used.

In the event of serious damage to any main, or structural, component then Broxap should be contacted immediately for detailed technical advice.

In addition to the visual inspection, a regular cleaning regime is also required.

The required frequency of visual inspection and cleaning will be dependent on the environment in which the product is situated:

- In rural and urban environments (C1 – C3) the products should be visually inspected monthly, and cleaned every 3 months.
- In harsh industrial or coastal environments (C4, C5-I, C5-M), where the products may come into contact with concentrated atmospheric pollutants (chemical, marine), the visual inspection frequency should be increased to weekly, and the cleaning frequency increased to monthly (or as required).

Note – this document is not designed to be exhaustive and extensive in the exacting requirements of every case. If you consider your cleaning or repair circumstances to be outside of the scope of this document, then please contact Broxap and we will be happy to help you keep our products looking as new.

All cleaning and maintenance should be recorded, detailing the method of cleaning, what products have been used, and what repair work has been undertaken.

In the case of a warranty claim against Broxap, this information will be requested.

Galvanized Coating

Galvanizing is a hot-dip chemical reaction of molten zinc onto a steel substrate. At the time of the process taking place the appearance will be one of shiny silver, however, this will not last and over a period of several weeks this will dull off to a grey colour. This is the natural finish of the Galvanized surface.

Note - due to the nature of the Galvanizing process some surface irregularities may occur on the surface of finished products. Although these will be finished flat, where possible, this will not be undertaken where it may breach the zinc coating. Some visual irregularities may therefore be present on galvanized products, including those finished with a polyester powder coating – these do not compromise the durability and performance of either the product or the coatings in any way.

The cleaning of any exposed Galvanized surfaces should be undertaken using:

1. A low pressure water wash e.g. hose pipe.
2. A soft brush, with warm soapy water, to remove any surface dirt.

Scourers, wire brushes, and abrasive cleaners must not be used during cleaning as they may compromise the protective surface and result in premature rusting. After cleaning ensure the product is rinsed thoroughly.

Galvanizing has the ability to “self-heal” any minor knocks or scratches. However, there will be occasions whereby the coating has been damaged to base steel at a size that will not allow for self healing. Based on this there are several proprietary repair paints on the market. In Broxap’s experience we have found 2 that give a satisfactory repair and finish for ongoing use. The 2 methods are either Galvafruid or Zinga with both being available in either a paste / brush application or an aerosol spray.

- Where the surface is scratched or damaged through to base steel, a check should be made to establish if rusting has occurred.
- Where rusting is present, then the area should be wire brushed / sanded to bring back to a bright steel surface.
- The system used for repair will state the required precautions that should be taken along with the application method, however, a build up of coating should be such that the thickness will be capable of giving ongoing protection as required. The coating thickness on renovated areas should be at least 100 microns.

Additional Information

Additional information on maintenance can be found on the Broxap website:

www.broxap.com/maintenance



Spares & Accessories

Many items are utilised across various products to offer efficiencies in drawing requirements, billing of materials, stock holding and stock utilisation.

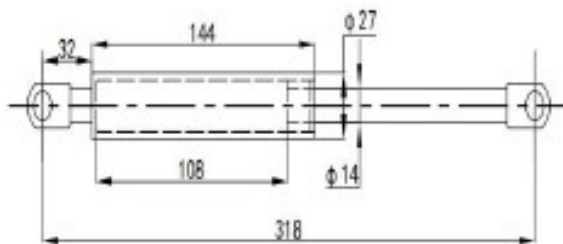
As such, many items from our pre-design product ranges (such as cycle shelters, smoking shelters, cycle racks and cycle stands) are held in a galvanized state in stock. This allows damaged and irreparable components to be exchanged within a very small time scale, with the items only requiring picking and despatch (powder coating if a colour finish is required).

In these instances, many components from stock would be available to order and delivered within days.

Broxap can provide installation operatives for the replacement of components, however dependant on the part requiring replacement, these can be taken care of by local operatives.

Gas Strut

Part Name	Gas spring
Specifications and models	318* 1400N
Center distance	318mm
Travel distance	108mm
Stress	1400N
Cylinder diameter	27mm
Piston mast diameter	14mm
Length of the cylinder body	144mm
Connecting head hole spacing	32mm
Connector thickness	7mm



Overview

Place of Origin:	Guangdong, China
Brand Name:	CSZIY
Model Number:	CS-YQL-92
Style:	Cylinder
Load Type:	Compression
Material:	Steel
Usage:	Industrial
Name:	High pressure gas spring for toolbox 1100n~1400n 318mm
colour:	Black or request
length:	318 or request
Application:	Machinery
force:	110kg
Type:	Compression
end fittings:	Metal eyelet
speed:	Slowly without any shakes
rod finish:	Black or chromate



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seal: without any oil leak
Hole Center Distance: 318mm
Stroke: 100mm
Force: 1100n
Thread Dia.: M8

Mainly Specifications:

Extended length(mm)	stroke length(mm)	D1*D2(MM)	Force F1(N)	Fr(max)
100~300	30~100	4*12	20~200	30
301~600	101~200	6*15	50~200	50
601~900	201~300	8*18	100~800	60
901~1200	301~400	10*22	150~1150	80
1201~1600	401~500	12*22	150~1200	80
500~1200	200~500	12*26	200~1500	80
500~1300	200~600	12*28	200~2000	100