GATICO AssistLift
Makes light work of heavy covers.

Specialised Engineering. Special Advice.
Gas and Air Tight Inspection Covers with assisted opening.

Gatic has been setting the industry standard for access covers since 1928. Over this time we have developed products to suit many different industries. The AssistLift covers featured in this brochure have been refined over many years and are in service around the world.

AssistLift covers facilitate one person opening of a F900 load rated ductile iron cover either as an individual cover or as part of a multi cover arrangement.

The modular nature of the Gatic system of removable covers is designed to provide sealed, uninterrupted access to the services below whether as a single cover, duct or multispan arrangement with removable support beams. A removable system for virtually any size of pit configuration and loading can be developed.

Gatic covers are designed to protect and give access to a diverse range of underground services. Examples include, manhole/pump/valve/transformer chambers, pipe and cable service trenches, cable draw pits, lighting, fuel and fire hydrant pits, machinery/plant access chambers, tunnel shaft access chambers, combined sewer/overflow chambers and storm tie down pits.

Gatic specialise in the design of covers for airports, container ports, dockyards and industrial areas where extreme wheel loadings from aircraft, container carrying equipment and other vehicles may been encountered. Covers are available with recessed tops for concrete infill at site or with solid cast iron tops. AssistLift covers can be incorporated into larger covers for other loading categories upon request.

AssistLift gratings are also available, please refer to our technical office for details.

Cover types
Covers are available either recessed for concrete infill at site or with solid ductile iron tops.

Concrete infill recessed covers
Recessed covers are designed for infilling at site. Concrete should be as specified in BS EN 124:1994 - 45/mm² for a test cube 150mm or 40N/mm² for a test cylinder 150mm dia x 300mm high, using 10mm coarse aggregate.

Anti-slip surface
Concrete infill covers provide a non-slip surface similar to the surrounding areas, solid top covers incorporate a raised lozenge pattern on the surface.

Materials
The components of Gatic covers are manufactured from the following materials: Ductile iron to BS EN1563:2011 Structural steel sections (removable support beams) to BS4-1:2005. M-Struts® and hinges in stainless steel grade 304.

Fine tolerances
The seating faces of Gatic covers and frames are machined finished and assembled in metal to metal contact within a tolerance of 0.25mm.

Non-rocking
Correctly installed, Gatic covers will be non-rocking under traffic and sealed against road dirt and other detritus.

Watertight
A film of graphite grease between the machined contact faces of Gatic covers and frames provides a gas and airtight seal and a watertight joint under normal rainwater conditions.

Removal/Replacement slide-out covers
The machined seating faces facilitate the sliding out of covers for removal and replacement. Lifting keys are available on request for use with cranes and other mechanical devices.
Secure and vandal resistant
Covers are designed to prevent tampering and unauthorised removal without the use of the specially designed Gatic lifting keys. Locking bolts can be fitted to Gatic cover keyways as an additional security feature. Gatic Type SSA covers incorporate a slam latch mechanism complete with a retained locking bolt. Gatic Types RGA and SGA incorporate two locking bolts as standard.

Vibration resistant
To prevent the movement of covers in high density traffic conditions we recommend the use of a factory fitted vibration resistant locking system which can be fitted in recessed covers only. Gatic do not recommend the use of either solid top or assist lift covers in high density traffic conditions.

Beam wallbox
Supporting beams in Gatic multispan units can be easily removed with the appropriate lifting equipment to give uninterrupted access to the total chamber area. The beam wallboxes do not project into the chamber opening.

Closed keyways
Gatic cover keyways are closed and supplied with plastic plugs to prevent them from blocking with detritus.

AssistLift cover pop open / hard close
All Gatic AssistLift covers can be set at any time as follows:
Pop open – The AssistLift cover can be set to automatically partially open from the closed position after unlocking.
Hard close – The AssistLift cover will require manual assistance to lift the cover from the closed position.

Safe Lifting – AssistLift covers
Gatic AssistLift covers have been designed to be lifted and closed by a single operator. The maximum lifting and closing force will be approximately 25kg depending on the size, type and lifting characteristic that has been chosen.

M-Struts®
M-Struts® are designed for demanding environments and provide a maintenance free alternative to conventional gas struts. M-Struts® are made of grade 304 stainless steel. Unlike gas and pneumatic models, M-Struts® have no internal gases to leak or seals to fail in extreme conditions.

Hinges
Gatic AssistLift covers are supplied with flush-fitting hinges as standard but can be supplied with barrel hinges upon request.

Loadings
All Gatic covers within this brochure will withstand the test load, deflection and maximum deformation criteria specified in BS EN124 for load category F900.

AssistLift cover with solid top, anti-slip surface
High performance covers that are lighter in weight than those incorporating concrete infill, solid top covers feature a raised lozenge design on the surface.

Closed keyways
Gatic cover keyways are closed and supplied with plastic plugs to prevent them from blocking with detritus.

AssistLift cover pop open / hard close
All Gatic AssistLift covers can be set at any time as follows:
Pop open – The AssistLift cover can be set to automatically partially open from the closed position after unlocking.
Hard close – The AssistLift cover will require manual assistance to lift the cover from the closed position.

Safe Lifting – AssistLift covers
Gatic AssistLift covers have been designed to be lifted and closed by a single operator. The maximum lifting and closing force will be approximately 25kg depending on the size, type and lifting characteristic that has been chosen.

M-Struts®
M-Struts® are designed for demanding environments and provide a maintenance free alternative to conventional gas struts. M-Struts® are made of grade 304 stainless steel. Unlike gas and pneumatic models, M-Struts® have no internal gases to leak or seals to fail in extreme conditions.

Hinges
Gatic AssistLift covers are supplied with flush-fitting hinges as standard but can be supplied with barrel hinges upon request.

Loadings
All Gatic covers within this brochure will withstand the test load, deflection and maximum deformation criteria specified in BS EN124 for load category F900.
Gatic AssistLift side-hinged covers.

Gatic Type SSA side hinged covers are all assist lift to give complete access to the chamber below.

Gatic stand-alone AssistLift covers are available in a variety of configurations.

Single, solid-top AssistLift cover – Type SSA

Two-part solid-top cover – Type SSA
These are fitted with a removable central support bar.

Three-part solid-top cover – Type SSA

Gatic with side hinged AssistLift covers
These can be supplied in standard units as per the sizes shown on the chart below.

Longer lengths are available

Number of cover parts are shown in the boxes under the standard pit clear opening length (L)

<table>
<thead>
<tr>
<th>Pit clear opening Span (S)</th>
<th>Solid Top Cover type</th>
<th>Standard Pit clear opening lengths (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>750</td>
</tr>
<tr>
<td>760</td>
<td>SSA</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pit clear opening Span (S)</th>
<th>Solid Top Cover type</th>
<th>Standard Pit clear opening lengths (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>900</td>
</tr>
<tr>
<td>910</td>
<td>SSA</td>
<td>1</td>
</tr>
</tbody>
</table>
Gatic AssistLift covers with end hinges.

Gatic Type RGA and SGA end hinged covers give complete access to the chamber opening when used as a single cover. When integrated as part of a duct or multispan arrangement, they provide either one person access to a chamber above a ladder or access to equipment that would need to be inspected/operated on a regular basis. Covers are available for individual lengths according to the span selected – either 750 or 900 clear opening span.

**Single AssistLift cover – Type SGA**

**Double, recessed unit – Type DMR with end AssistLift cover – Type RGA**

**Four-part solid-top cover – Type STF with end AssistLift cover – Type SGA**

Gatic recessed or solid top covers and frames with one AssistLift cover at the reverse end of the unit. These can be supplied in standard units as per the sizes shown on the chart below.

<table>
<thead>
<tr>
<th>Pit clear opening Span (S)</th>
<th>Solid Top Cover type</th>
<th>Recessed Cover type</th>
<th>Standard Pit clear opening lengths (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>750</td>
<td>SGA</td>
<td>RGA</td>
<td>750 900 1450 1600 1750 1900 2150 2300 2450 2600 2750 2850 2900 3000 3150</td>
</tr>
<tr>
<td>900</td>
<td>SGA</td>
<td>RGA</td>
<td>1 * 2 2 2 2 * 3 3 3 3 3 3 4 * 4 4</td>
</tr>
<tr>
<td>3300</td>
<td>3450 3750 3850 3900 4000 4150 4250 4300 4450 4600 4750 4850 4900 4950</td>
<td></td>
<td></td>
</tr>
<tr>
<td>750</td>
<td>SGA</td>
<td>RGA</td>
<td>4 4 4 5 * 5 5 5 5 5 5 5 6 * 7</td>
</tr>
<tr>
<td>900</td>
<td>SGA</td>
<td>RGA</td>
<td>* 4 4 * 4 * 5 5 5 5 5 5 5 5</td>
</tr>
</tbody>
</table>

*Indicates non availability of a product fitted with an assist lift cover

Gatic recessed or solid top covers and frames with one AssistLift cover at the reverse end of the unit. These can be supplied in standard units as per the sizes shown on the chart below.

**Standard cross sections**

- Type SGA – closed side view
- Type RGA – cover open front view

*Indicates non availability of a product fitted with an assist lift cover.
Gatic AssistLift multispan covers and frames.

Gatic multispan access covers incorporate removable support beams so that much larger pit openings can be covered. The table shows standard multispan units that can have an AssistLift cover installed at the back end of the unit. In some cases, more than one AssistLift cover can be fitted.

The dimensions shown in **green** can be fitted with a 750 x 750 clear opening AssistLift cover. Whilst the dimensions shown in **red** can be fitted with a 900 x 900 clear opening AssistLift cover. Typical cross section and beam sizes can be found on the page opposite.

These heavy duty covers are specifically designed for airports, container ports and docks where abnormal wheel loadings from heavy vehicles are envisaged.

Please refer to our technical department with details of specific requirements so that a detailed proposal may be prepared.

---

**Solid top AssistLift cover – Type SGA**

**Recessed AssistLift cover – Type RGA**

---

### Possible number of Assist Lift Covers

<table>
<thead>
<tr>
<th>Beam Centres</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>750</th>
<th>900</th>
</tr>
</thead>
<tbody>
<tr>
<td>1530</td>
<td>1800</td>
<td>2070</td>
<td>2340</td>
<td>2610</td>
<td>2880</td>
<td>3150</td>
<td>3420</td>
</tr>
<tr>
<td>1680</td>
<td>2040</td>
<td>2400</td>
<td>2760</td>
<td>3120</td>
<td>3480</td>
<td>3840</td>
<td>4200</td>
</tr>
<tr>
<td>1830</td>
<td>2200</td>
<td>2560</td>
<td>2920</td>
<td>3280</td>
<td>3640</td>
<td>4000</td>
<td>4360</td>
</tr>
<tr>
<td>1980</td>
<td>2360</td>
<td>2720</td>
<td>3080</td>
<td>3440</td>
<td>3800</td>
<td>4160</td>
<td>4520</td>
</tr>
</tbody>
</table>

### Possible number of Assist Lift Covers

<table>
<thead>
<tr>
<th>Pit clear opening length (L) mm</th>
<th>2 parts</th>
<th>3 parts</th>
<th>4 parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1770</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2040</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2310</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2580</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2850</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

* Indicates non availability of a product fitted with an assist lift cover
The details below show plan and sections of a typical recessed top unit with one assist lift cover.

Beam size
The required beam size for multispan covers is dependant upon the pit clear opening length and the loading group.

The table shows the minimum beam length against beam size. The removable support beams are supplied by Gatic.

The table also shows dimensions of the beam wallbox and rebate to suit different beam sizes. See also accompanying section details.

<table>
<thead>
<tr>
<th>Removable support beam size</th>
<th>Max pit clear opening length (L)</th>
<th>Beam wallbox dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>V</td>
<td>W</td>
</tr>
<tr>
<td>356 x 171 x 67kg/m UB</td>
<td>1750</td>
<td>467</td>
</tr>
<tr>
<td>457 x 152 x 82kg/m UB</td>
<td>2300</td>
<td>568</td>
</tr>
<tr>
<td>533 x 210 x 122kg/m UB</td>
<td>3300</td>
<td>648</td>
</tr>
<tr>
<td>610 x 229 x 140kg/m UB</td>
<td>3900</td>
<td>720</td>
</tr>
</tbody>
</table>
Installation and Operating Guides
Complete and fully illustrated installation and operating guides are available for all AssistLift products. These are designed to ensure the health and safety of everyone in the commissioning and on-going operation of these products.

Access Covers Full Technical Brochure
Illustrated literature providing key applications, features, benefits, load categories and full technical details of the GATIC Air and Gas Tight Covers product range, including AssistLift.

Interactive website
The brand new, redesigned GATIC website is user-friendly and offers full details of the entire range of Covers as well as Gatic Slotdrain surface water drainage products. Here you will find details of features and benefits, sizes and load categories, together with contact information.

Access Cover information DVD
Interactive DVD containing complete information on the entire Access cover range of products, their handling, installation and maintenance.