



Covers for any task

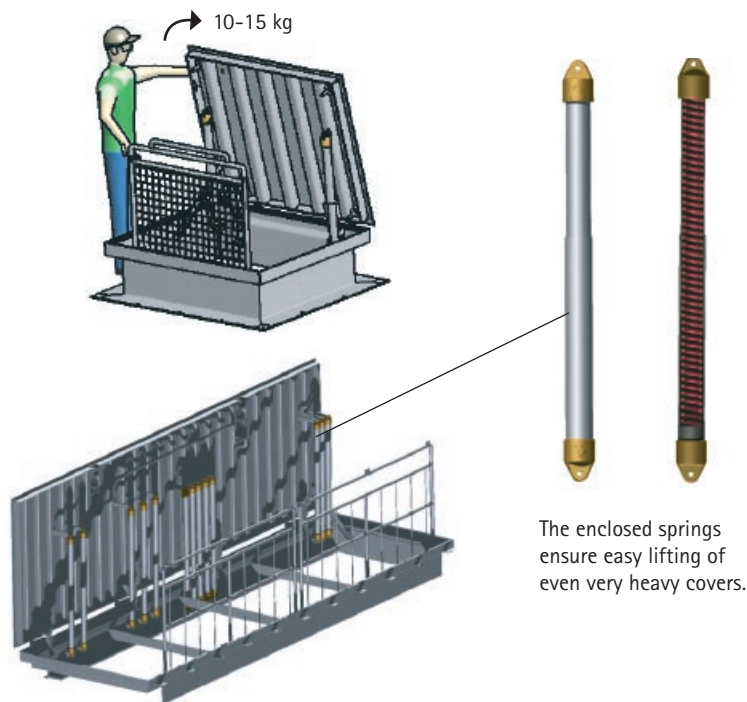
- Roadways
- Tunnels
- Airports
- Metros
- Train platforms
- Underground parking facilities / multi-storey car parks
- Access to sewers
- Pumping stations
- Biogas plants
- Pump wells
- Structures
- Anti-terrorist protection
- Engineering



Covers with a spring-assisted lifting system ensure easy lifting and access to underground installations

Gerhardt Christensen A/S has specialised in the development and design of manhole covers for pavements, car parks, roads, harbours, airports, etc. We have a great deal of experience within this area of production, and our solutions, which have been developed and enhanced to meet ever stricter quality and environmental require-

ments, have proved their robustness by withstanding the impact of the weather and general wear and tear over a period of many years. Gerhardt Christensen has also developed a spring-assisted lifting system which reduces the opening force to just 10 - 15 kg for covers weighing up to 2,000 kg.



Recessed floor plate covers

Recessed floor plate covers from Gerhardt Christensen are made to measure.

The covers are designed for embedding in concrete, bolting on or with a floating frame for regulation of the height of the cover.

Gerhardt Christensen covers are always equipped with a safety support for the lid so that the lid cannot be closed inadvertently when personnel are working at the cover. The covers can also be equipped with a simple locking mechanism (Copenhagen lock - mortise lock system).

Malmö City Tunnel

35 recessed floor plate covers in stainless steel were delivered to Malmö City Tunnel. The covers are equipped with a spring-assisted lifting system which enables one person to easily open and close the heavy covers. The size of the covers in this project ranged from 760 x 760 mm to 4,500 x 2,500 mm.



1. Copenhagen lock - mortise lock system - simple locking mechanism.



2. Copenhagen lock - mortise lock system - a simple and functional locking mechanism combined with a bracket for panic opening.



3. Heating cable - protects against frost and ice damage.



4. Support for lid with safety ratchet.



5. Rubber seal prevents penetration by water.



Covers with special surfaces

Covers with special surfaces can be adapted to the surroundings by means of integrated surfacing consisting of

- stone
- asphalt
- gravel
- paving stones
- concrete
- granite
- wood, etc.

The example shown consists of floor plate covers with cobblestones in varying colours at Amaliehaven in Copenhagen.



Automatic parking facility, Nørre Allé, Copenhagen.



Hydraulic covers

- Mobile or fixed aluminium side enclosures
- External hydraulic control box
- Alarm system
- Emergency stop
- Control box with key operation
- Basic model is supplied with its own hydraulic station and control unit with emergency function for opening and closing via the control box
- Hydraulic slide lock for compression of seal
- Lubricated floating hinges



Sydhavn, Copenhagen.



Filmbyen Århus

Covers with spring-assisted lifting system, special surface and safety grid. Opening force 10 – 15 kg.



City Tunnel, Malmö

Covers with spring-assisted lifting system and safety grid. Opening force 10 – 15 kg.



Herbert von Karajan Straße, Berlin

Covers with spring-assisted lifting system and paving stones. Opening force 10 – 15 kg.

Riddarhus quay, Stockholm

Covers with spring-assisted lifting system and cobblestones. Opening force 10 – 15 kg.



Islands Brygge, Copenhagen Covers with spring-assisted lifting system, bauxite surface and safety grid.



Strandvejen, Copenhagen

Rabbeted floor plate covers with aluminium enclosures.



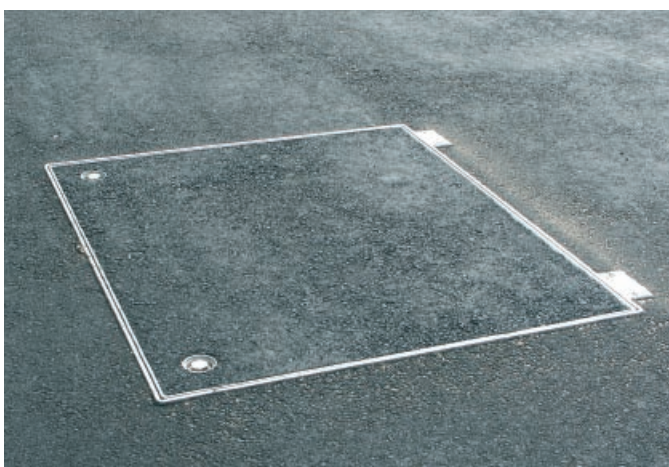
Copenhagen

Heavy-duty recessed covers. Opening force 10 - 15 kg.



Opera House, Copenhagen

Round floor plate cover with spring-assisted lifting system and paving stone surface. Opening force 10 - 15 kg.



Copenhagen

Recessed floor plate cover with asphalt. Opening force 10 - 15 kg.



Naval base, Frederikshavn

Recessed floor plate covers with wooden surface. Opening force 10 - 15 kg.

Anti-terrorist protection – Covers with integrated camera

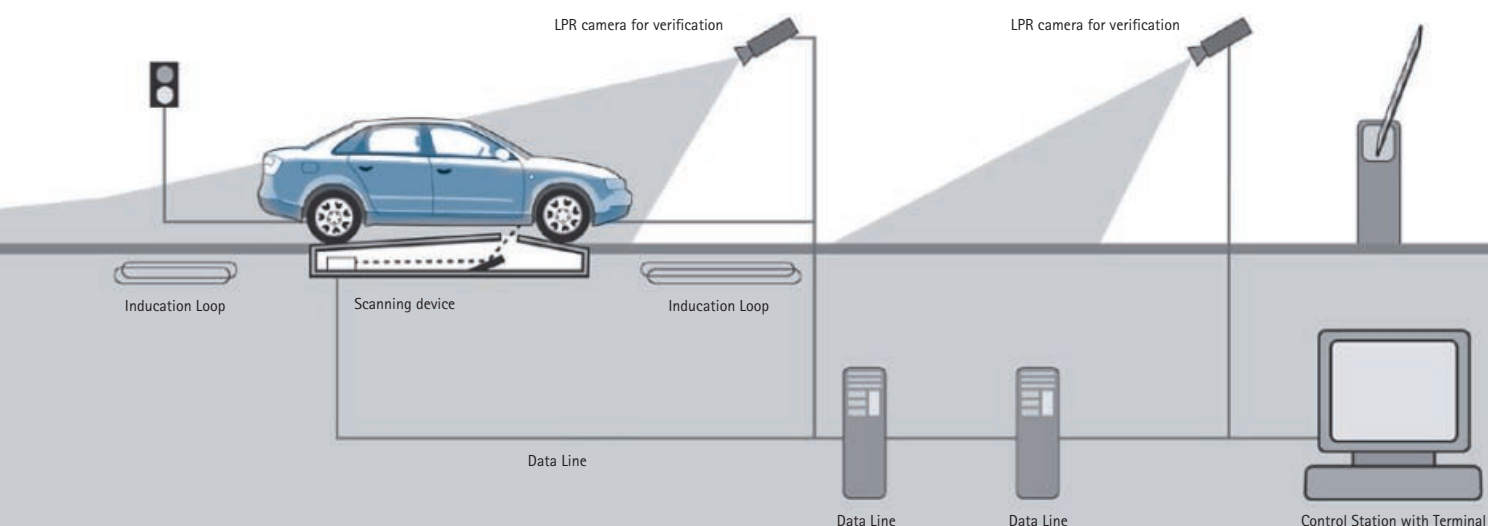
Gerhardt Christensen A/S has specialised in all types of manhole covers for underground installations – including covers that meet the growing need for protection against terrorist bombing threats. Our specially designed Move & Traffic Controls covers make it possible to carry out a visual security check of the under-side of vehicles as they pass over the cover.

Move & Traffic Controls covers are used for the protection of:

- Hotels
- Embassies
- Major banks
- Government buildings
- Military installations
- Oil refineries
- Natural gas plants
- Major industrial plants
- Mining operations, etc.



Example of the System Concept





System description

The system consists of a control PC and a scanner unit that contains one or several cameras. These have an unhindered view of the underside of the vehicle via a special mirror positioned at an angle which reduces the built-in height.

A number of infrared diodes ensure that the underside of the vehicle is illuminated when it passes over the scanner.

The scanner is connected to a PC via cables. The PC processes and stores all the scanned images.

The images are registered on the PC monitor. Up to 10,000 images can be stored in standard configuration.

In an advanced version of the system it is possible to carry out an automatic comparison of two underside images of the same vehicle.

Registration of the vehicle will be carried out by means of automatic reading of the number plate.

- Optical security check to hinder car bombs
- Rapid check of cars and vehicles
- Scans all objects with a width of up to 2.8 m and a length of up to 19 m
- Distance to the underside of the vehicle can vary from 1 to 60 cm
- Vehicle speed from 1 to 40 km/h
- If required, the system can be equipped with a disc/screen wiper system
- Available as a fixed unit or in a mobile version
- The mobile version is very compact: 100 x 100 cm, height just 9 cm
- Also available as a dual scanner version, e.g. for prison gates.

Covers „made by Gerhardt Christensen A/S” – innovation og quality

In addition to its extensive range of manhole covers, Gerhardt Christensen also supplies a number of different types of gates and valves which are used for regulation and shut-off of flow in lakes, reservoirs, tanks, etc., as well as one-way flaps which effectively prevent return flow in sewers and rainwater pipelines.

Solutions from Gerhardt Christensen A/S are tailored to meet individual demands for functionality. Our engineers have considerable experience in calculating and dimensioning projects to satisfy regulatory standards and requirements with regard to strength, the environment and durability under extreme conditions.

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All solutions are thoroughly tried and tested prior to final handover. Thanks to many years' experience of dealing with numerous tasks in the areas of environment, clean water, and sewage, we are confident that we will not meet any challenges that we are unable to solve.

We frequently act as advisors and partners with respect to the development of completely new solutions, where experience and creativity are critical to ensuring a successful outcome. Therefore please contact us if you are in doubt as to whether your plans can be realised.

You are also welcome to visit us at www.gc.dk or to order additional brochure material.



www.gc.dk