Goppion
Fuoriclasse
Fuoriclasse

Display cases with special design and performance characteristics
This section gathers together a range of extraordinary Goppion collaborations that produced units with unique designs: some have an unusual shape (triangular, pentagonal, curved) compared with the standard rectangular units, others are radically different in concept. Please refer to our historical catalogue, Museum Exhibition Installations, for more detail on the Fuoriclasse cases described below.

Bowed glass box cases, opening by rotation
We designed this display case to imitate the typical shape of a string instrument’s case.
Civico Museo di Antichi Strumenti Musicali, Milan, (IT)

Monumental display cases, opening by rotation
These cases are made of burnished brass and provide excellent security and precision “zero clearance” opening system.
Tower of London, Jewel House, London (UK)
Monumental display cases, opening by lifting
These cases are made of burnished brass and provide excellent security and precision “zero clearance” opening system.
Tower of London, Jewel House, London (UK)

Hanging case made entirely of glass
This 40-meter long glass box case opens by sliding the front panels upwards by powered traction employing steel cables, gears, and motors set into the frame.
Pinakothek der Moderne, die Neue Sammlung, Munich (DE)

Table display case 13 meters long
This case’s length made it very difficult to open as a single piece while maintaining the necessary synchronized movement. In addition, the relatively low base would have meant the bonnet could be lifted only a short distance, making it very difficult for the curators to mount the display. Consequently, we decided to use nested telescopic screws (Lh3 type), whose movement is synchronized mechanically by a roller chain.
The British Museum, The Wellcome Trust Gallery, London (UK)
**Large display case (64 m²) for the Ardabil carpet**

This case, essentially a room of non-reflective glass, opens by the total simultaneous vertical translation of all sides by means of telescopic screws (Lh3 type) synchronized mechanically by a chain drive mechanism concealed below the floor.

The Victoria & Albert Museum, The Jameel Gallery of Islamic Art, London (UK)

---

**Vertical wall case 6 meters high**

The case opens by rotation on special articulated quadrilateral hinges. The door is fitted with a demountable aluminum frame, preloaded by mechanical bar tensioners. The frame’s construction design is Goppion Proprietary.

The Victoria and Albert Museum, The Jameel Gallery of Islamic Art, London (UK)

---

**Irregular polygonal display case**

Glass box with pull-and-slide opening on one side only.

Newseum, Washington, D.C. (US)
Curvilinear display case with inclined ceiling
The door opens by rotating on the vertical axis on articulated quadrilateral hinges, while active magnetic gaskets ensure an airtight seal when the case is closed.
Jaeger Le-Coultre, Lausanne (CH)

Triangular wall-mounted display cases
The door rotates open on the vertical axis on articulated quadrilateral hinges and includes active magnetic gaskets for an airtight seal.
Civico Museo Archeologico, Sezione Greca, Milan (IT)

Display case designed to hold a buffalo skin
The curved shape of the base’s sides prevented the use of pantographs or a tilting opening system. Employing telescopic screws (Lh2 type) enables the glass box to be lifted to a considerable height despite the base being low, granting curators safe and easy access to the skin.
National Museum of the American Indian, Smithsonian Institution, New York (US)
**Large freestanding vertical display cases**
Doors rotate open on articulated quadrilateral hinges. These display cases have straight and curved sides made entirely of glass.  
Her Majesty Queen Sirikit Museum of Textiles, Bangkok (TH)

**Curvilinear vertical display cases**
In these cases, the doors rotate open on the vertical axis on articulated quadrilateral hinges and include active magnetic gaskets.  
National Cowgirl Museum, Fort Worth (US)

**Triangular vertical display case**
The door rotates open on the vertical axis on articulated quadrilateral hinges, and cast-in-place silicone gaskets ensure a tight seal.  
Civico Museo Archeologico, Sezione Milano Romana, Milan (IT)
**Large irregular wall case**
The doors in the glass front rotate open on the vertical axis on articulated quadrilateral hinges. The internal mounting system is especially complex. Musée des Confluences, Lyon (FR)

**Large irregular polygonal display cases**
Opened by rotating the glass front. Musée des Confluences, Lyon (FR)

**Large wall case with push-and-slide opening system (Qv4 type)**
This system has been used for exceptionally large cases and provides high airtightness. Musée du Quay Branly, Paris (FR)
Display cases for the Victoria 1 and Victoria 2 paintings by Gerhard Richter
Because no glass manufacturer in the world was capable of producing a single sheet of the dimensions required for this case, Goppion engineered and produced a case door consisting of a metal frame holding three panes of glass, each measuring 5.2 m x 2.6 m, glued together. The hinged door (measuring 7.8 m x 5.2 m and weighing around 1,800 kg) is perfectly airtight when closed thanks to a mechanical system that compresses the gasket around the entire perimeter. The climate-control system includes an air filter and can be operated by remote control. It maintains an ideal microclimate within the case and is connected to the building's fire alarm system.
Head office of ERGO Versicherungsgruppe AG, Düsseldorf (DE)

Pentagonal display cases
Display cases characterized by their pentagonal base and considerable height. Access is through a door in the front that opens by rotating on the vertical axis on articulated quadrilateral hinges. A light attic houses the lighting apparatus.
Museo dell’Opera del Duomo, Florence (IT)

Octagonal display case designed to contain the wooden model for Botticelli's choir in the Duomo
Because the model was so large, it could not be placed into the case through a door in one of the sides. Goppion thus had to engineer a means of reaching the interior of the case by lifting the whole glass box. Telescopic screws (Lv2 type) reduced the space taken up by the mechanism and three of these were found to be enough to lend the case stability in the open position.
Museo dell’Opera del Duomo, Florence (IT)
**Curved display cases**
Vertical freestanding or wall-standing display cases consisting of extra-clear non-reflecting glass set into an aluminum frame. Glass box opening by rotating on articulated quadrilateral hinges. Interior lighting with adjustable LED mini-spots fitted to the metal hood. Relative humidity passive control system set into the interior plinth. The cases can also accommodate a relative humidity active control system. London, The Design Museum, *Cartier in Motion* exhibition.