

# RACO

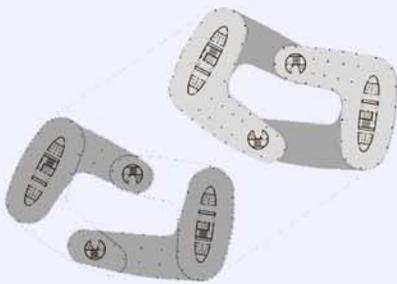
## Actuator



**Vitacon Building  
Hamburg, Germany**



**Glass Panel Door  
Actuator**



**The Boomerang Wing Design**

## Revolving Glass Door Panel Operated By RACO Electric Actuators

In the center of Hamburg's business district, a uniquely shaped building has been designed by the Berlin architects Pysall, Ruge. The four boomerang shaped building sections form a six-story office building with a center atrium. Found at both the north and south sides of the structure, four-story high revolving glass portal panels create lavish entrances to the building and the center atrium.

To operate the ten revolving glass portal panels, ten RACO actuators with a thrust force of 4,500 lb. are mounted on the ceiling of the underground parking garage. Each of these actuators are connected to a lever arm, which rotates the center pole of the four-story high revolving glass portal panel. Individual security glass panels are affixed on both sides of the center pole and allow entrance to the building and the center atrium.

Each actuator is equipped with onboard power and position control devices. To allow for smooth opening and closing of the door panel, a variable frequency drive is used to operate the electric actuator motor. Precise position monitoring and control ensures repeatable, uniform, and accurate reach of the door end positions. The environmentally friendly actuators only consume energy during door operation.

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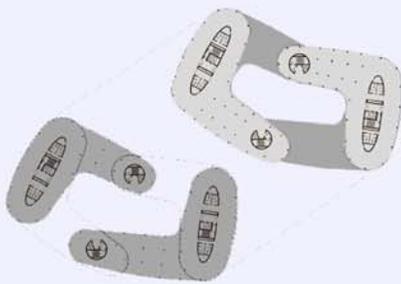
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### Glass Panel Door Actuator



**The Boomerang Wing Design**



The actuator is mounted on the ceiling of the underground parking lot



The thrust tube of the actuator is connected to the lever arm of the revolving glass door panel



View of the floor section of the revolving glass door panel



On board control via a variable frequency drive, position monitoring and end of stroke supervision



Each of the five revolving glass door panels represent the building entrance on the north and south side of the boomerang shaped building

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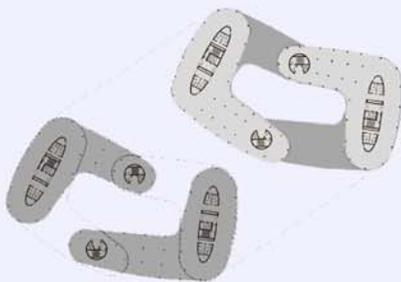
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Revolving glass door panels in the closed position



Revolving glass door panels in the open position



View of the five door panels, street side



View of the entire building