

Building Technologies

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.



Boomerang Building



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.



application report



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