

Glazing Device *BALANCE*



Bayer Glasbau GmbH from Berlin got the order to glaze the outer facade of a new building at the Humboldt University in Berlin with 7.000 m² of insulating glass. This at a height of up to 12 m with a sheet size of maximum 4 x 3 m and a weight of up to 800 kg.

Bayer Glasbau GmbH developed the concept for the execution of the glazing work. The special challenge was to do the glazing under a projection of 80 cm. The insulating glass sheets were to be taken from a prepared glass rack with a special glazing device and a high crane. The crane operator was to be directly involved with the glazing work in order to enable the exact control of the crane movements. The angle of inclination of the insulating glass sheets had to be controllable so that the panes could be tilted with a slight inclined position into the frame. This would enable smooth movements without jerking. Furthermore, the 80 cm projection had to be got over. Because work safety is a big subject for Bayer, it also had to be a battery-operated vacuum lifting device. A suitable glazing device was not found on the market.

Bayer contacted us and explained both their problem and their suggestion for the solution. We realized this in the form of the glazing device *BALANCE*, a battery-operated, electronically-movable carrying beam (with a rechargeable battery) and an acceptance possibility for further counter weights on one side and a suction frame on the other side.



This newly developed vacuum lifting device BALANCE is equipped with the thousand-fold used and proven accumulator technology from Pannkoke. Via the adjustable inclination of the carrying frame with the suction cups it is possible to suction an insulating glass pane without any problems and also to easily tilt it into the frame. The tilt movement is done very smoothly and in spite of this, very quickly. An optimal setting of the insulating glass panes is achieved by the crane operator at the glazing site. Due to the modern radio remote control in the crane this whole procedure is no longer a problem. The setting of an insulating glass pane of 4 x 3 m and a weight of approximately 800 kg takes, thanks to the glazing device BALANCE, only approximately 8 to 10 minutes.

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