

## ***Double glass facade of the Deichtor Center in Hamburg***



The company STEELWORK of Berlin received the order for the double glass facade of the new building, Deichtor Center, with a facade area of ca. 6,000 m<sup>2</sup>. This architecturally very interesting, three-sided and ca. 35 m high construction was designed by a Hamburg architectural firm, BRT.

The company STEELWORK, founded in 1993, used three vacuum lifting devices from us simultaneously for this construction. Through the use of on-the-roof movable, mounted rope winches, the facade elements were moved by the three vacuum lifting devices, of the type Kombi 7011-DS, easily and exactly to their correct positions. The facade elements each had an average size of 3.60 x 1.35 m and a weight of ca. 100 kg. The entire job comprised around 1200 of these elements.

The battery-operated devices used have a maximum carrying capacity of up to 600 kg in accordance to the design. The size of the suction frame is approximately 1000 x 800 mm. In order to have them adapt to each element, the suction cups are mounted so as to be movable on the suction frame. The Kombi 7011-DS with its possibilities for extensions is very flexible because the suction frame is exchangeable. With that, it is possible to convert the Kombi 7011-DS to a Kombi 7011-DSG within a matter of minutes so that you can glaze curved elements.



The point glazing was done by the company Roschmann Glas GmbH. This enterprise also used a Kombi 7011-DS for their work. But as the individual panes were too large for the standard suction frame, the Kombi 7011-DS was equipped with additional extensions. Through the use of these simple to mount extensions, a greater stability is obtained. Each of the extensions has a length of approximately 750 mm. By this construction, a maximum of approximately 2500 mm distance between the two suction cups is made possible, instead of the 1000 mm available through the use of the standard suction frame.



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