

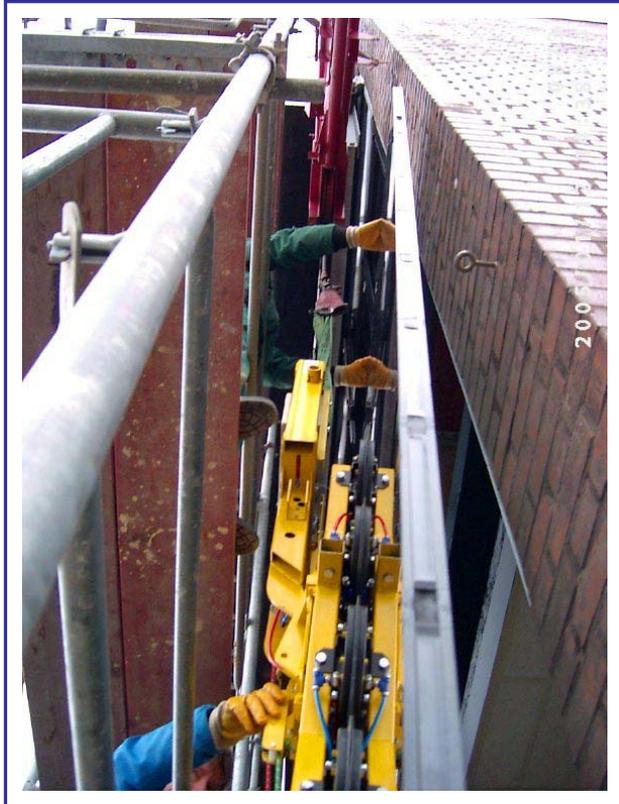
The optimum tool for on-site glazing work



The company Koenig Glasbau GmbH & Co KG in Helmstedt is one of the first customers to use the battery operated, completely redesigned vacuum lifting device **Kombi 7211-DS3**. This vacuum lifting device, manufactured by us and presented for the first time at the glasstec 2004, offers versatile on-site uses. The new, extremely flat **Kombi 7211-DS3** simplifies glazing between façade and scaffolding and consequently renders work a lot more efficient. Thanks to this new device, the company Koenig was able to carry out its glazing work in a fast and simple manner.



As a result of the many variation possibilities offered by the **Kombi 7211-DS3** and its maximum carrying capacity of 1000 kg during on-site operation (pursuant to EU standard EN 13155), there is a solution for virtually every task in the field of glazing. By means of the 2-circuit rotary transmission leadthrough it is possible to infinitely rotate the glass pane. The tilting motion (vertical – horizontal) can be carried out by very small degrees. For this reason, this completely redesigned mechanism permits both a simple and safe tilting to the desired position.



Within minutes, the mechanical tilting device can be exchanged against a hydraulic tilting device.

In addition, a model with electrical swivelling device is also available.

Although compared to previous battery operated vacuum lifting devices, the battery capacity has been almost doubled, it has all the same been possible to reduce the device depth to 230 mm and this at a maximum carrying capacity of 1000 kg.

With the aid of six extensions, the suction frame can be adapted to the goods to be transported. Without extension, the **Kombi 7211-DS3's** base frame can be equipped with a maximum of 8 suction cups. This consequently results in a load-bearing capacity of 400 kg per vacuum circuit. Through the additional extensions, the number of suction cups can be gradually increased to 20 (10 suction cups per vacuum circuit). This "growing" of the **Kombi 7211-DS3** along with its tasks is unique on the vacuum lifting device market, which currently offers no other device of equal adaptability.



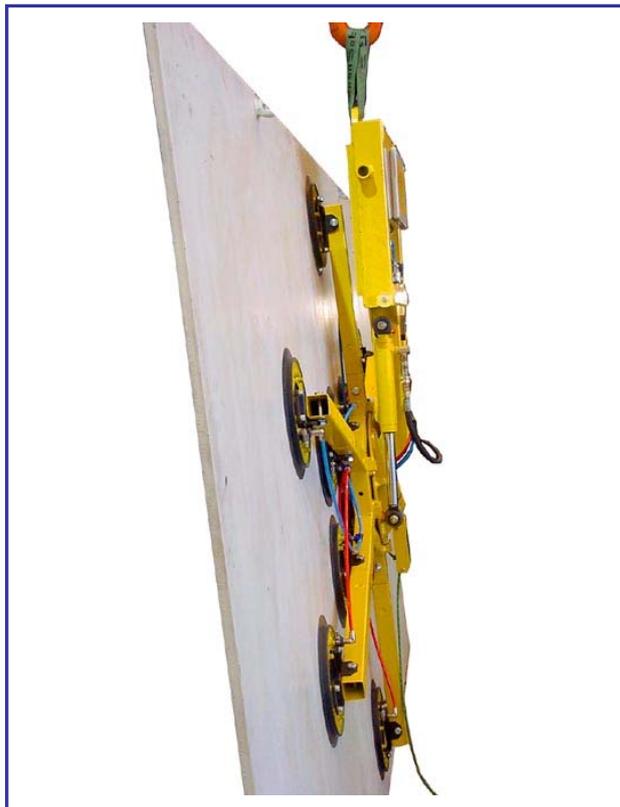
The device's suspension point has been brought that close to the loaded device's centre of gravity, that the loaded device's angle of inclination is very small, i.e. almost vertical, even at 1000 kg. This is very important when working between scaffolding and house wall.

To be able to carry out glazing work underneath projecting structures or overhangs, the **Kombi 7211-DS3** is designed such that it can be used with the counter weight unit **Balance** without a problem. Only the sophisticated design of the device makes it possible to work with 1000 kg glass panes underneath an overhang of max. 1.5 m or to glaze an inverted pyramid with a max. taper of 10°.



According to EN 13155 it is necessary for on-site operation that every vacuum circuit holds the rated load with twofold reliability. The **Kombi 7211-DS3** is equipped with differently coloured hoses, so that it is easy to recognise each vacuum circuit. In the **Kombi 7211-DS3**'s highest extension stage, each of its vacuum circuits is able to hold the test load of 2000 kg.

Prior to delivery of each vacuum lifting device, we carry out a load test using the twofold rated load of the device. If desired, the customer may partake in this test at our production site in Luebeck and personally convince himself of the device's efficiency. During the final inspection of the **Kombi 7211-DS3**, both vacuum circuits are successively subjected to this load test. The test load must in each case be held for a minimum of five minutes without any detectable slipping of the suction cups.





A transport frame to store and transport the **Kombi 7211-DS3** is also offered. This frame accommodates all the essential device parts and has been designed for simple and fast working. It is even possible to carry out maintenance work while the device is mounted on this frame.

For use outside the EU or for internal transport, this device is also offered with 1-circuit vacuum system.

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