

Is the clamp holder a safe bet for suction cups?

It is great to be able to adjust the position of a suction cup on a vacuum lifting device using a clamp holder. The suction cup distance is easy and quick to adjust.

However, the clamp holder does have to be able to support the right level of force. Something that happens frequently is for the clamp holder not to be tightened sufficiently, which means that the suction cup does not have a fixed connection to the support frame. In cases like this, the suction cup is unable to absorb the actual force intended in the design rating of the vacuum lifting device. As a result, the other suction cups then have to absorb higher levels of force. This in turn can cause the other suction cups to be overloaded, possibly then causing the materials being transported to tear off or to slide along the panel.





On this subject, we have also produced a short video featuring an old vacuum lifting device, the Kombi 7011-DS, to demonstrate what can happen when the clamp holders on suction cups are not tightened correctly. Of course, the results do not necessarily always have to be as extreme as shown here. However, this does show what can happen.

Just click the link, and the video file will open on any Internet-capable PC.

What can happen when the clamp holder is not tightened sufficiently?

Find this on YouTube:

Taking the example of an old vacuum lifter, the Kombi 7011-DS

		https://youtu.be/oLNjMZg1YV4
		https://youtu.be/huBcRnPoimQ

Imagine something like this happening on a vacuum lifting device while manually turning a glass pane, and you can see how dangerous it might be. For this reason, adjustable suction cup distances with dowel pins are a safe method. Although they do not permit every position to be covered, they do always keep each suction cup correctly in position.

However, if you are using this kind of clamp holder, you should always check that they are securely seated before using the vacuum lifting device.