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**Nesting with 999 bellow suction cups –**

**Eurotech builds eT-Gripper suction box for use in robots**

**Whenever multiple parts need to be sawn, lasered or punched out of a board, manual removal of these pieces can be very laborious and time-consuming.** **Vacuum technology turns this task into a piece of cake. Eurotech has developed a special size of suction box in the eT-Gripper product family for use in nesting plants. The device combines with a robot.**

The suction box, built for a renowned furniture manufacturer and glass processing company, is a robot attachment made from aluminium. The robot removes a complete set of cut furniture components from a nesting plant, making them available for sorting and further processing.

Thanks to its bellow suction cups, the eT-Gripper can isolate a wide range of different shapes from the chipboards, which are ten to twelve millimetres thick. Round parts are no more difficult than angular drawer fronts. Even larger parts such as doors are no problem for the suction box, which is considerably larger than the other products of its family at a size of 800 x 2400 millimetres. A total of 999 bellow suction cups of the type BSC 32 E are installed inside the suction box.

The bellow suction cups are preferable over a suction mat for this type of task, as they can be operated separately depending on the shape of the piece to be drawn in. Unnecessary material around the pieces is not drawn in; it remains in place and can be disposed of easily once all useful parts have been removed.

A thin profile was used for the suction box, allowing for a relatively low weight despite its enormous size. In combination with the constructive design of the robot support at the location of the customer and that of the suction box itself, the device can lift up to 80 kg.

Thanks to its optimised, reliable holding power, the eT-Gripper product family by Eurotech is suitable for a wide range of different industries and fields. Eurotech users benefit from a modular construction system with a large number of combination and complementary systems. The vacuum specialist supplies both standard and custom devices.

Figures: 2.132

Company profile:

*Eurotech offers handling and transport solutions in the field of vacuum technology. The company develops customer-specific vacuum systems and components for automated handling tasks. Thanks to the Eurotech modular construction system, the components can be flexibly adjusted to meet individual customer requirements and spare parts can be installed in a quick and cost-saving manner.*

**Image attachment:**



Image 1: eT-Gripper suction box with 999 bellow suction cups



Image 2: Bellow suction cups attach themselves to a wooden beam



Image 3: Bellow suction cups hold individual parts



Image 4: Bellow suction cups inside the eT-Gripper