

ZCC Pick&Place Interface Option

zund cut center

The Zünd Cut Center – ZCC can control a robot via the Pick&Place Interface Option. This allows the cut parts to be removed, sorted and stored fully automatically.

The Pick&Place Interface Option enables direct communication with a robot via the Zünd Cut Center – ZCC operating software. A Modbus TCP protocol is used for this purpose, with the robot's PLC interface being the master. The robot solution is purchased from a third-party supplier. It must be ensured

that the robot has sufficient reach as well as a master PLC with Modbus interface. The configuration of the PLC memory range is based on Zünd's interface specifications. Furthermore, all safety aspects must be respected, such as operating safety, fence, light curtain, connection of the robot to the emergen-

cy stop circuits of the cutter, obtaining CE and other certifications, etc. The Pick&Place Interface Option allows parts removal and storage to be fully automated. Individual storage locations or containers can therefore be defined. The necessary parameters are taken from the metadata of the order.



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ZCC Pick&Place Interface Option

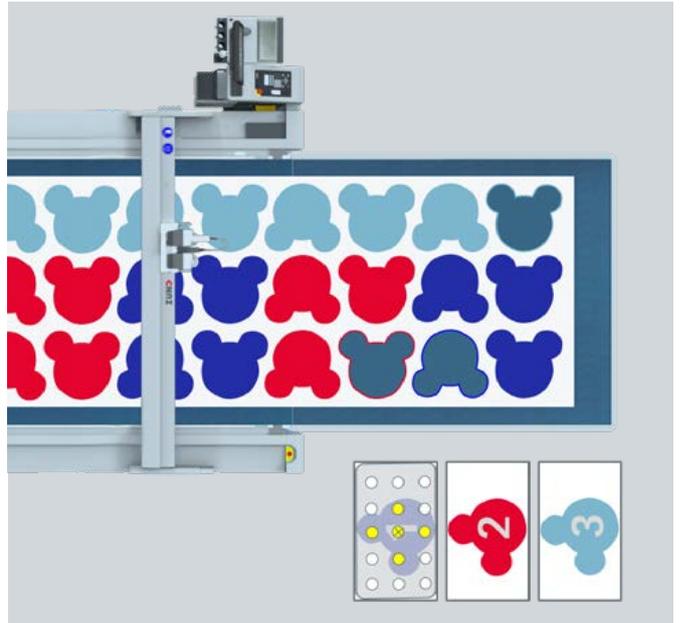
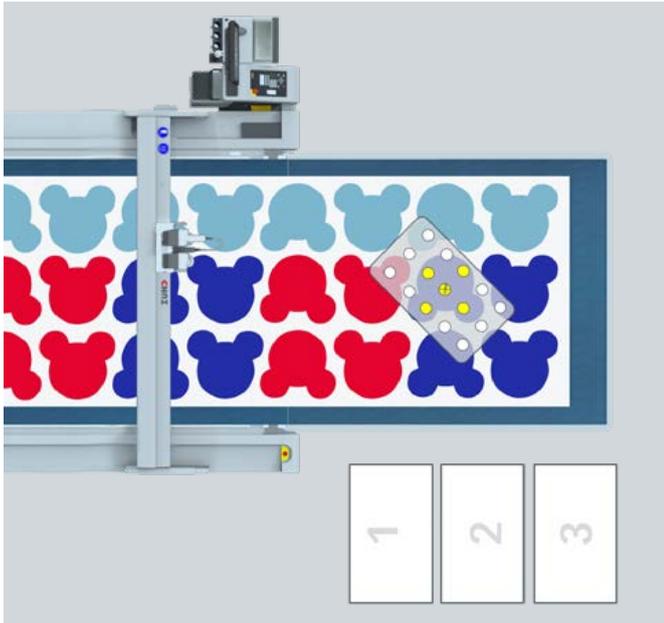
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Parts removal

The size and shape of the cut pieces are taken into account during removal. For the most reliable removal, the Zünd Cut Center – ZCC calculates the ideal arrangement of the suction cups and activates only those that are needed.

Storage of the parts

The cut-out parts can be placed at predefined positions. Based on the default settings in the ZCC, the robot can place the parts in a container or on a growing stack. Based on the metadata transmitted to the ZCC, each part is placed in the correct position. This allows the sorting process to be fully automated.



In this example, five suction cups are activated to remove the part. The suction head automatically aligns itself in the ideal removal position.

Details

Modbus TCP protocol

Hardware connection set (emergency stop connection)

Requires front cutter extension

Patent pending

Compatible with **S3**, **G3**, **D3**

Benefits at a glance

Fully automated Pick&Place

Intelligent sorting of the cut parts

Optimized alignment of the suction head

Selective activation of the suction cups

Choice of storage - on growing stacks or in containers

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