

Interface for Peripherals

The interface for peripherals is used for controlling various cutter options and for synchronizing the cutter with peripheral equipment.

Cutter options include the auxiliary drive that permits advancing the conveyor belt (and materials) forwards and backwards, the router option, etc. Peripheral equipment may include roll-off options, sheet/board feeders, and other material-handling options. It may also be necessary to control peripheral tools or tool settings, e.g. for ultrasonic, laser, inkjet, waterjet, or to turn on/off the controllers that govern these tools.

When peripheral equipment is connected to the cutter, it may be necessary to synchronize emergency stops of each device to ensure that they shut off simultaneously in case of an emergency.

It is also possible to stop the material advance on the Zünd cutter from an external device; the operator is then given the option to continue or abort the advance.

Specifications

There are 4 I/O interface channels (3 digital, 1 analog) available for controlling a maximum of 4 options and/or external devices from the cutter.

The analog output signal is proportional to the speed of the conveyor advance. When used to control a material feeding/loading device, the signal synchronizes the loading function with the conveyor advance.

An external peripheral can send a "stop advance command" to interrupt the material advance; this triggers an error message that prompts the user to continue or abort the advance.

An output signal can be used to turn on/off external tools. Similar to the control of the EOT/POT, tool on/off delays can be defined in conjunction with the signal.

The 3 digital output signals can also be controlled via HPGL commands.

When external peripherals are connected to the cutter, it is important that all emergency stops be synchronized. To do so, the emergency-stop circuit of the cutter can accept input signals from external devices; conversely, the cutter has a contact available that relays emergency stops to peripherals.

Further information: www.zund.com - Reseller area

Benefits

Compliance with safety regulations (E-stops, etc.)

Implementation of complete workflow, production processes

Integration or use of additional cutting technologies, control of specific tools

Simple, low-cost integration of cutter in OEM or enduser-specific turnkey solutions

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