Advantages of GÜDEL solutions: How you benefit:

1. Key account management  
   - One point of contact
2. Several main hubs with their own production facilities  
   - Fast response times and good knowledge of local markets
3. High vertical range of manufacture  
   - Low life-cycle costs
4. Pervasive automation  
   - Increased efficiency
5. Asynchronous process flow  
   - High sorting capacity
6. Modular construction  
   - Low space requirement due to modules being well positioned
7. Universal control systems  
   - Low susceptibility to breakdowns
8. Family-run company with fifty years of experience  
   - Reliable partner
9. Customised solutions based on proven, standardised components  
   - Reliable solutions, proven technology
10. Swiss quality, worldwide manufacture  
    - Quality and precision

A worthwhile investment

Your profitability is of the utmost importance to us: GÜDEL systems are particularly impressive because of their low life-cycle costs. We take into account the total cost of ownership – starting with the facility’s purchase and ending with its disposal. Due to the high percentage of components manufactured in-house, we have this objective in mind right from the production stage. We optimise your costs and identify any savings potential.

Low costs over the whole life-cycle of the installation

GÜDEL’s bottle-sorting systems reliably sort out disordered bottles

Your saving

Total cost of ownership

Time

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A bottle-sorting plant from GÜDEL sorts out any unwanted bottles and stacks them on pallets, according to their type, for removal – fully automatically, efficiently and reliably. Such uni-
fied automation systems provide you with state-of-the-art technology, ensuring that you are well equipped for the increasingly wide range of bottles used in the national and international beer industries.

The GÜDEL Group, an international company with its roots in Switzerland, has decades of experience in the industry. We provide proven standards in flexible modules, which enables us to tailor our solutions to your particular requirements.

GÜDEL: turnkey solutions for the beverage industry

High sorting capacity due to asynchronous process flows

Scalable quality in small spaces

Fully automatic and efficient

The constant flow of materials – in-
dcluding the removal of full and empty pallets – ensures that the sorting process is continuous.

The various stages of the process run asynchronously: the conveyor system acts as a buffer between the stations. This provides the highest possible degree of automation. The facility can sort between 20,000 and 40,000 bottles per hour – or more, depending on its capacity.

A bottle-sorting system from GÜDEL makes the fullest use of the space available. Because the system is modular, we integrate the facility seamlessly into your existing operations. Modules can be added or changed at any time, so the system adapts itself to your particular requirements.

Thanks to the flexibility of our packages – comprising linear axes, robots and grippers – and our expertise in engineering and controls, we can provide practically any handling and system solution.

We understand and oversee every stage of your process. Due to the high percentage of components that we manufacture ourselves, the full advisory services and the in-house development of products, we attain a very high level of quality. Thanks to the flexibility of our packages – comprising linear axes, robots and grippers – and our expertise in engineering and controls, we can provide practically any handling and system solution.

GÜDEL: bottle-sorting process

1. Depalletising: The gantry robot unloads the mixed pallets layer by layer. The grippers, specially made for this purpose, place the crates carefully onto the stainless-steel conveyor belt. The crates are positioned by a centring frame and held in place for the next stages of the process.

2. Camera-based detection: Image-processing systems detect the type of bottle. With this type of system, we prefer to collaborate with partners who adhere to the same quality standards as we do. As your sole contractual partner, we ensure that all of the systems are fully integrated.

3. Unpacking: The grippers take out one type of bottle after the other and allocate them to their respective conveyor belts.

Options: The unpacking station can also be used for crate transfers, e.g. freshly-filled bottles can be taken from a twenty-bottle-capacity crate and put into smaller ones.

4. Packing: Another vision system identifies the type of bottle and crate. Based on this information, the robot fills up the crates according to the bottle type. As an option, an additional vision system can perform a final check. Ultimately, each crate contains only one sort of bottle.

5. Palletising: The gantry robot places the crates in layers onto pallets. Subse-
quently each pallet contains only one sort of bottle.

Loading and unloading the lorries: If required, our fully-automatic truck-load-
ing system can carry out these stages of the process.

Software-based plant layouts with 3-D simulation, accurately representing the targeted flexibility and output.
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