

CONVEYOR CONTROL SYSTEM

HEUFT *synchron*
HEUFT synchron



Efficient and quiet - a conveyor control system of the 21st century



The overall efficiency of your filling line leaves much to be desired even though the individual machines function optimally? Then there is probably a problem with the container flow between the devices. Hectic acceleration, chains which rub the containers from below and burst bottles due to too much pressure can be the reason for this. The result: a poor performance and a high level of noise.

The HEUFT *synchron* conveyor control system puts things right. It accelerates the containers smoothly, optimises the conveyor speed and increases the efficiency of the complete line significantly.

The HEUFT *synchron* always knows the current status of the bottle flow in an intelligent and foresighted way. Gaps are closed carefully and jams identified in good time.

This not only protects the containers and the conveyors but also your ears. This is because the pressureless combining of the HEUFT solution produces much less noise than conventional systems with impact pressure.



One after the other. And none must be missing!



Containers have to be one behind the other without gaps before entering the decapper, rinser, filler or labeller. A combination of large and small gaps distributed over the complete conveyor area increases the demands considerably. The HEUFT *synchron* looks at the areas to be regulated in their entirety, follows the individual positions in the internally reproduced "container tracking", links the results calculated and

consequently achieves a carefully controlled container flow. Its all-embracing monitoring closes gaps without generating new ones. The HEUFT *synchron* also copes with demanding tasks effortlessly whether the single-lane blocking of two machines or the dynamic laning of a single-lane container flow to several master machines. For this HEUFT uses standard hardware and software: the customer does not need to carry out

complicated programming because all the adjustments can be simply adapted by means of parameter changes. The HEUFT *synchron* has a modular design and can be retrofitted and extended at any time. Existing conveyors, control cabinets and frequency converters can as a rule be continued to be used when integrating it along an existing line.



One for all. A conveyor control system with farsightedness!



Avoiding machine standstills: in order to make this possible interference to the mass transportation has to be remedied there and then before it spreads to the single-lane section. Therefore farsightedness is required when regulating the buffer sections. The HEUFT *synchron* has this.

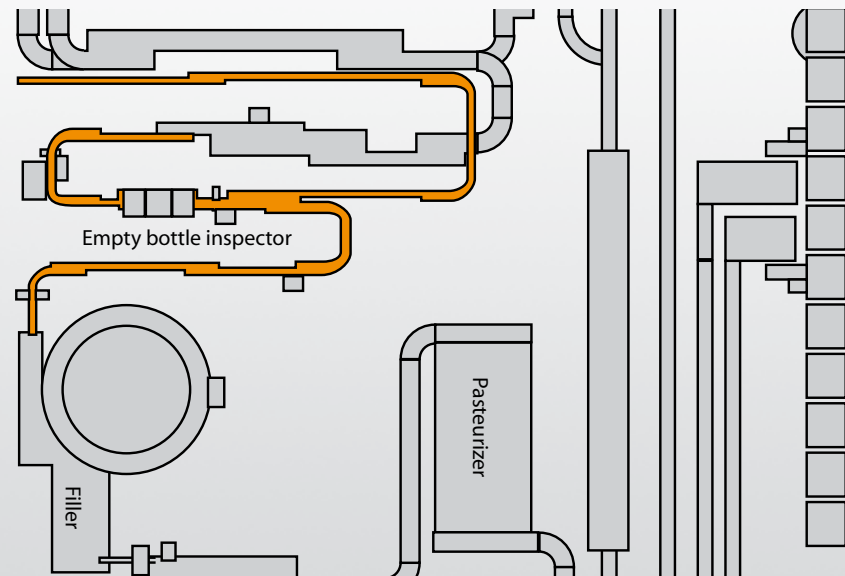
It makes sense to integrate the machines which supply and discharge into the

control system so that the design of the conveyor mechanics can be optimised and compact in such sections. This creates the best operating conditions for the full buffer before and the empty buffer after the master machine.

For example integrating the washing machine and purposefully regulating its speed helps to avoid stops and to exclude the spreading of lye. This safeguards

the product quality with a lasting effect.

Containers are transported carefully and without pressure being applied to them in the buffer sections regulated by the HEUFT *synchron*. Any gaps which have occurred are closed reliably. In this way best efficiency is always guaranteed.



Solutions for the single-lane section



The HEUFT *synchron BS*

The HEUFT *synchron BS* is geared to the functional requirements of the conveyor control system in a cost-effective manner. It regulates the critical single-lane sections smoothly - from the unmatching conveyor via an optional central machine to the infeed to a master machine. The HEUFT *synchron BS* is installed decentrally along the conveyor and can therefore

be integrated into existing lines without a problem.

The HEUFT *synchron TX*

The HEUFT *synchron TX* is top quality as regards the supply to several master machines along a line. Furthermore it provides the ideal basis for regulating the electronic blocking and the dynamic laning.

The graphical user interface of the HEUFT *synchron TX* makes operation and parameterisation easier - it is network-compatible and in this way creates the prerequisites for remote service, electronic data saving and connection to the HEUFT *PROFILER* line analysis tool.



Synchronisation problems ruled out



The electronic blocking between two rotary conveyors, e.g. between the filler and the labeller but also between the rinser and the filler, ensures that there are no gaps in the container flow.

The single-lane conveyor transport is of course the ideal solution. Less conveyor mechanics, space-saving compared to buffer sections and no risk of recontamination in the case of open containers are only a few points. The control sys-

tem is certainly a real challenge in this respect - many systems have problems with the synchronisation of the master machine. The result: a constant stop and go when the line is started.

Such difficulties are unfamiliar to the HEUFT *synchron*. The HEUFT conveyor control system also guarantees a smooth process with commercially available machines without special additional equipment.

In some cases e.g. when filling beer, the filler has to be emptied completely during a stop. But what should be done with the bottles? HEUFT provides a solution in this case with an integrated dynamic buffer section. The buffer section is emptied when the labeller goes into operation again. At the same time the line of bottles between the machines is closed.



Everything from one source: the all-round carefree package

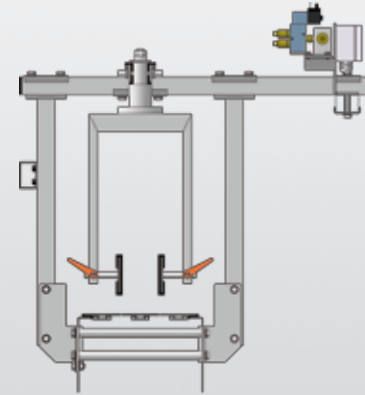


From the simple conveyor control system to the complex filling line - HEUFT provides you with a complete conveyor system including control system. It does not matter whether you wish to optimise your line totally or redesign it completely: with us you have a partner you can count on.

The modularly assembled program can be extended at any time. Adapting to

the respective needs on site not only saves costs but at the same time also ensures an optimally installed and efficient system. We will of course take care of all the installing and commissioning including the original inspection in accordance with BGV A3. You secure the flexibility required by the market for yourself with the intelligent detailed solutions and innovate technologies from HEUFT. Our team of experts will

be pleased to advise you! They will determine the tasks to be solved by analysing your line and make recommendations for an optimal procedure.

The HEUFT *line-up*The HEUFT *traxx*The HEUFT *XY*

Container laning units



The HEUFT *synchron* conveyor control system works perfectly with the following container laning units:

The HEUFT *line-up*

- controlled distribution of containers
- avoidance of wedged bottles and jams
- constant supply of containers on different lanes

The HEUFT *traxx*

- distribution of the container flow
- stable guidance even for unstable containers
- low-noise laning

The HEUFT *XY*

- controllable rejection curve
- smooth rejection / laning of difficult, unstable container types by

means of controlled transversal acceleration

- also suitable for empty and full plastic containers
- laning onto up to four lanes



Your cost advantages with HEUFT



We do everything in order to combine the very highest quality with fair prices:

- amortisation of the investment costs within a very short time
- reduction in the noise level
- reduction in wear and tear due to the lowest possible conveyor speeds
- noticeable increase in efficiency along the complete line
- reduction in downtimes
- modular construction
- simple subsequent installation
- easy integration into existing lines
- standard hardware and software
- employees do not require additional qualifications
- the HEUFT *TeleService* - cost savings: the service technician does not have to be called out



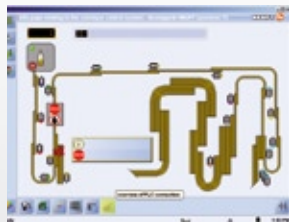
Networking



- integrated Ethernet interfaces as well as TCP/IP access to all networks
- connection capability to a pre-configured DDE interface and SQL database
- the HEUFT *PILOT* graphical user surface with a comprehensible menu structure for easy operating
- operation possible either via jog shuttle or touchscreen on the TFT screen at the device or via a network
- automatic transfer of counter readings or fault messages by SMS to a mobile phone or by e-mail if required
- firewall protected connection to the remote service by Ethernet – the HEUFT *TeleService* can access the line directly and rectify faults at short notice by means of remote diagnosis if the customer wishes



The HEUFT PILOT



- multilingual, simply arranged, comprehensible menu structure with extensive help boxes and complete online user's manual - the user interface can be supplied in any language / graphic characters if required
- password-protected operator levels, can be adjusted to suit the tasks of

the operating staff, the quality assurance department etc.

- easy identification of spare parts with online and offline spare parts list with photographs and exploded views - the order can be sent from the device either to an internal purchasing department or directly to HEUFT

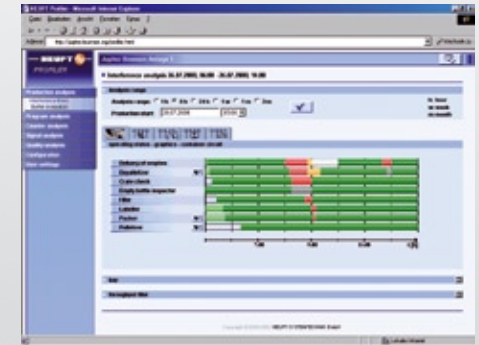
- the operator receives all the information during a brand changeover regarding the necessary steps in order to exclude possible operating errors
- clear fault messages with service notes and support in order to avoid downtimes



The HEUFT *relax*



The HEUFT *conveyor*



The HEUFT *PROFILER*

Other HEUFT products



The following products may also be of interest to you:

The HEUFT *relax*

- container fanning out system at the crossover from a one-lane to a multi-lane transport system
- harmonious distribution of the bottle flow in order to make full use of the conveyor capacity

The HEUFT *conveyor*

- particularly careful single-lane and multi-lane transport of single containers
- adaptation to the most varied spatial and hygienic conditions
- open construction optimised for cleaning and maintenance

The HEUFT *PROFILER*

- production data acquisition and line analysis
- clear display of all the operating states on one browser-based web interface
- far-reaching logging and analysis functions
- fast and cost-effective connection of HEUFT and foreign devices



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The HEUFT *synchron* conveyor control system

increased efficiency for the transport of containers



FUNCTIONS

- regulating single-lane and multi-lane conveyors
 - closing gaps e.g. between an empty bottle inspector and a filler
 - bringing containers together without applying pressure
 - synchronising two machines
- [more]*

THE ADVANTAGES

- transport without applying pressure effectively prevents scuffing to glass and PET bottles as well as damage to cans

- short changeover times as a result of brand-dependent, pre-programmed parameter sets
 - turnkey project planning and execution
 - fully compatible with existing PLC systems
- [more]*

* [more] detailed information on www.heuft.com/st

Real time regulation without cycle times increases the efficiency of the complete line considerably

[more]*

Considerable noise reduction compared to conventional techniques

[more]*

Control panel for easy operating and a clear overview

[more]*

The control panel is assembled centrally on the conveyor

[more]*

