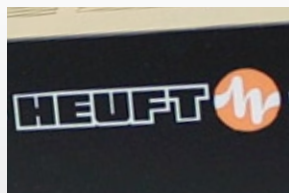




Overview of the IT products
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HEUFT *is* SYSTEMTECHNIK

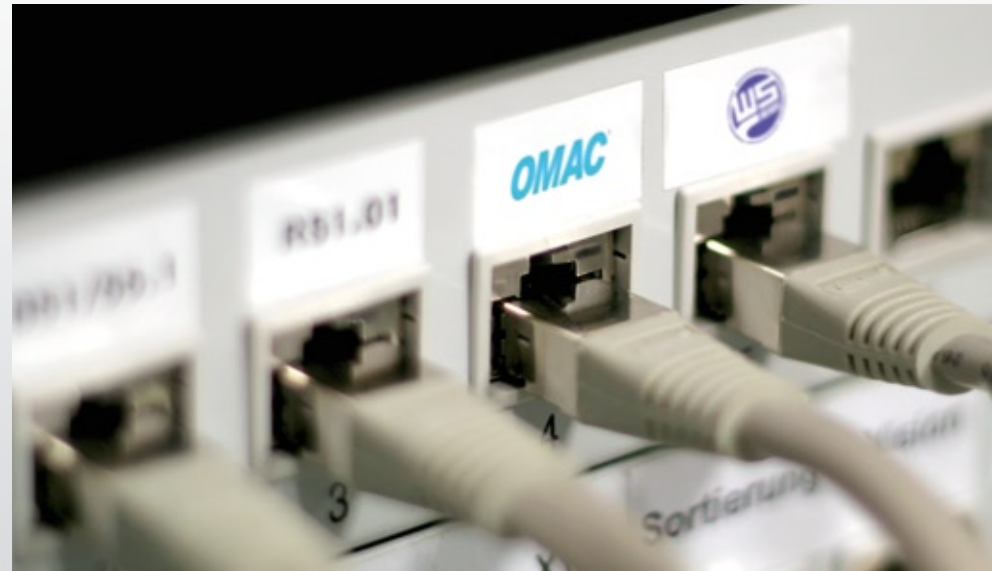


Networking is the answer! What many believe to be a current trend has been standard at HEUFT for a long time: we introduced a device family to the market almost fifteen years ago with the HEUFT *SPECTRUM TX* series which is equipped with future-proof Ethernet interfaces. Open, cross platform protocols set new standards for increased efficiency and an overview of the bottling hall: all the checking devices and machines speak

the same language and form a network into which standard office PCs can also be integrated. The use of the standard Internet protocol TCP / IP guarantees connection to all conceivable network technologies.

The result: considerably faster and simpler working procedures for an optimal internal quality management. Whether line analysis, production data acqui-

sition, spare parts management or remote service – the diversity of tasks is impressive. Production data, shift reports, productivity and fault analyses can not only be retrieved at the devices themselves but are also available network-wide. Future-proof, standardised and cross platform: networking is the answer!



Weihenstephan standards and OMAC: increased efficiency in the bottling hall

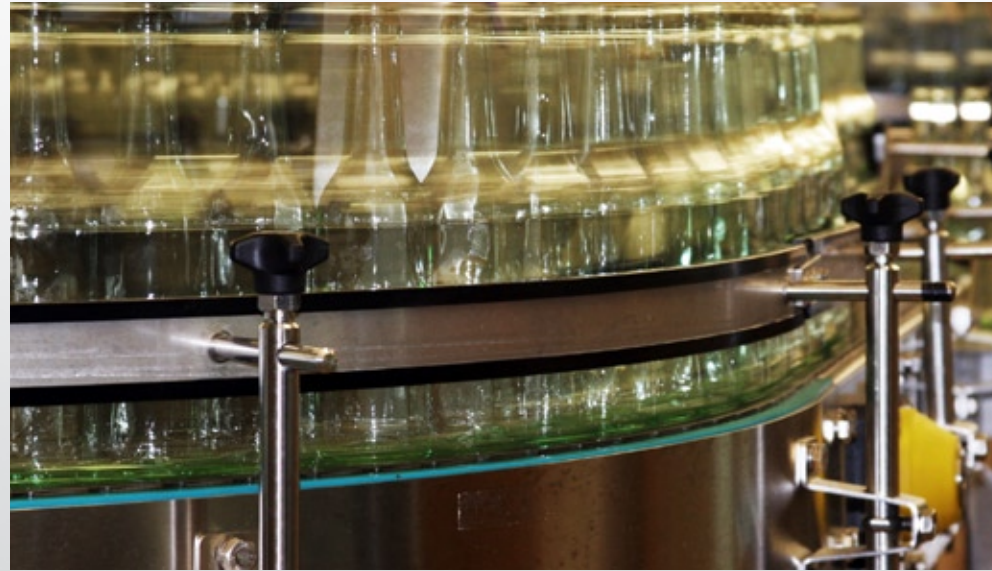


Increasing the productivity and profitability of drinks filling lines with a lasting effect – the Weihenstephan Science Centre together with HEUFT SYSTEMTECHNIK GMBH, other machine manufacturers and different breweries has developed common standards and an open data transmission protocol for production data acquisition (PDA) which does not require a licence in order to achieve this.

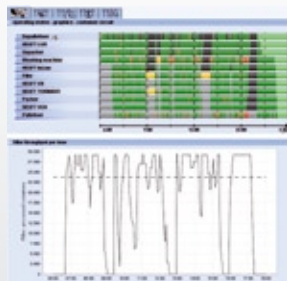
All the devices of the HEUFT *SPECTRUM TX* series fulfil these interface standards for the communication between machine control systems and higher-level IT units thereby making the simple and cost-effective implementation of PDA systems possible.

In addition to the Weihenstephan standards they also fulfil the OMAC guidelines for the development and use

of open system standards in automation and control technology.



The HEUFT *PROFILER* family: PDA at its best



Precisely recording and exactly evaluating production data – the three IT solutions of the HEUFT *PROFILER* family achieve this.

No matter whether you only require elementary quality-related data from your HEUFT *SPECTRUM TX* devices, wish to examine their performance more comprehensively with a particularly highly efficient tool or are looking for a

fully developed complete package the analysis process of which also includes foreign devices: the HEUFT *PROFILER* family covers the most varied requirements perfectly.

The HEUFT *PROFILER elemental* is a slimmed-down software solution for saving and analysing the elementary quality-related data from all the HEUFT *SPECTRUM TX* devices.

The HEUFT *PROFILER TX* acquires extensive production data from all the connected devices of this type.

The HEUFT *PROFILER* records the production data of all the connected machines and therefore makes a constant line analysis possible.



The HEUFT *PROFILER elemental*: the PDA system for the essentials



Slim, purposeful and efficient: the HEUFT *PROFILER elemental* always informs employees and decision-makers reliably about the performance of the connected HEUFT devices.

The compact software solution records the production counters of all the inspection, transport, sorting and labelling systems of the HEUFT *SPECTRUM TX* series in real time and makes them

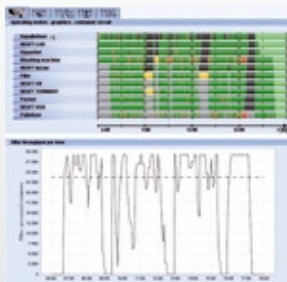
available network-wide via a web browser.

The cost-effective HEUFT *PROFILER elemental* keeps elementary production data such as counter data and test bottle logs ready at all times. They can be specifically evaluated, prepared in table and graph form and saved for as long as required.

You always see the essentials with this cost-effective solution and always know what the situation is regarding the status and efficiency of your filling line.



The HEUFT PROFILER TX: the PDA solution with added value



The server based HEUFT *PROFILER TX* provides more possibilities. All the devices of the HEUFT *SPECTRUM TX* series can be connected to the in-house developed, highly efficient PDA tool quickly and easily. The HEUFT *PROFILER TX* calculates the important performance indicators of each connected machine in accordance with the guidelines of the Weihenstephan standards using a freely configurable generator. Therefore they are always available for logging and analysing purposes.

The system can be implemented and commissioned in no time at all because all the HEUFT *TX* devices have been pre-configured for this application. All the operating states are clearly displayed on a browser-based web interface in table and graph form and are saved to the SQL database of the HEUFT *STRATEGY GATE* central server.

HEUFT can configure and design individualised reports for you upon request in

addition to the standard reports already stored in the system - including specially prepared performance indicators, a layout specifically for your company and an automated, interval-controlled printout.



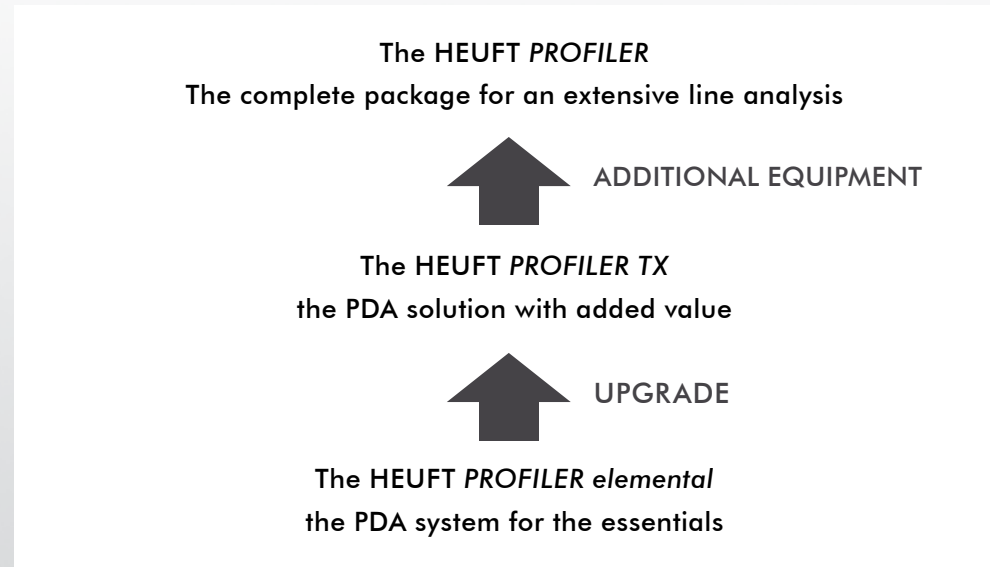
The HEUFT *PROFILER*: the complete package for an extensive line analysis



The HEUFT *PROFILER* provides the full range of functions of the HEUFT *PROFILER TX* and more. The complete package does not only record the production data of the connected HEUFT devices. Machines from other manufacturers can also be easily integrated. The result: an extensive performance analysis of the complete line.

Additional features such as the logic analyser, buffer analysis, supply meters and the integrated HACCP limit value monitoring system make the HEUFT *PROFILER* an effective tool which uncovers weak points and helps to increase the efficiency of your filling line with a lasting effect.

A large display keeps your employees informed as regards production indicators and the current device status. As a result interference is identified immediately. This minimises costly downtimes. The new process designer of the HEUFT *PROFILER* visualises the complete line with the respective counter readings of the individual devices in a panorama picture. In this way you never lose track.



At a glance: the HEUFT *PROFILER* family



The HEUFT *PROFILER elemental* the PDA system for the essentials

- records the production counters of all the HEUFT *TX* devices
- always has elementary quality-related data ready

The HEUFT *PROFILER TX* the PDA solution with added value

- makes the complete production data of all the HEUFT *TX* devices available
- generates key performance indicators and customer-specific performance indicators
- provides extensive, freely configurable logging and analysis functions

The HEUFT *PROFILER* The complete package for an extensive line analysis

- provides you with an overview of all the connected HEUFT and foreign devices
- visualises the complete line - in real time upon request
- has a large display which informs your employees directly about the current production



PDA and line analysis: advantages at all levels



The HEUFT *PROFILER TX* and the HEUFT *PROFILER* available network-wide from all connected PCs form an interface between the filling line, technicians, quality control and management. All levels stand to gain:

- the **management** always has up-to-date, freely configurable production reports and statistics available in PDF format – comparability in accordance with DIN 8782 is always ensured
- **technicians** can see the operating states of the machines at any time with

the long-duration oscilloscope for retrospective, accurate to the second signal analyses of the HEUFT *PROFILER*

- **production managers** are helped by the performance indicators when planning production and maintenance and evaluating batch, shift and brand-related production
- **shift leaders** use real performance indicators as the basis for shift reports
- the **quality assurance** department is helped by the automatic acquisition of test bottle logs, the continuous record-

ing of values and the HACCP limit value monitoring system of the HEUFT *PROFILER* when analysing production processes

- the **EDV administrator** is pleased with a maintenance-free server, a workplace-independent web surface and the automatic data backup procedure
- **production employees** always see the production indicators as well as the current device status using a large display and can react to interference

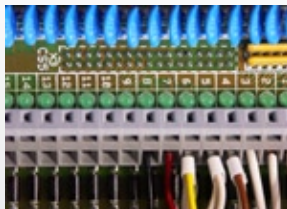


At a glance: the application possibilities and functions of the HEUFT *PROFILER* family

		HEUFT <i>PROFILER</i> <i>elemental</i>	HEUFT <i>PROFILER</i> TX	HEUFT <i>PROFILER</i>
Installation	HEUFT <i>STRATEGY GATE</i> server		✓	✓
	Software solution (for installation on the customer's server)	✓		
Analysis tools	Downtimes / operating states		✓	✓
	Buffer analysis			✓
	Machine programs		✓	✓
	Brands		✓	✓
	Production counter	✓	✓	✓
	Supply meter			✓
Technical tools	Logic analyser for digital signals			✓
	Oscilloscope for analog signals			✓
	Display showing the causes of downtimes		✓	✓
Quality assurance tools	Test bottle logs	✓	✓	✓
Logbook functions	Manual entries		✓	✓
	Monitoring of limit values or sensors			✓
Performance characteristics	Key performance indicators (DIN 8782)		✓	✓
	Customer-specific performance indicators		✓	✓
	Production brand analysis		✓	✓
PDF reports	Test bottle log	✓	✓	✓
	Production line report		✓	✓
	Counter statistics	✓	✓	✓
	Signal report			✓
	Customer-related reports		✓	✓
	Automatic printing and sending of reports by email		✓	✓
Machine connections	HEUFT HLAN for the HEUFT <i>SPECTRUM TX</i> series	✓	✓	✓
	Weihenstephan 2005 Part 1/2			✓
	Profibus DP			✓
	HEUFT <i>xio</i>	✓	✓	✓
Feedback monitoring system	Multi-line large display			✓
	Graphic overview of the production processes			✓
Backup	Automatic data backup		✓	✓
	Display tool for archived data		✓	✓



The HEUFT xio: data integration in small format



You wish to integrate old and foreign devices in the PDA system? This is possible with the HEUFT xio without any problems – in conformity with the Weihenstephan and OMAC standards to be precise. Its twenty-two digital and five analog inputs receive the corresponding signals, process them and make them available network-wide via Ethernet. The small control system for data integration is very easy to integrate and configure via the graphical user

interface of the HEUFT *PILOT* without programming skills.

As many HEUFT xio devices as required can be used in one and the same network. The compact data converter can be easily installed in control cabinets and can also be supplied as a complete module including a control cabinet with integrated voltage supply. It is possible to incorporate it into the HEUFT *PROFILER* line analysis tool by

means of plug-and-play. Other tools, e.g. a barcode reader, can be connected to its serial interface. The performance capabilities of the HEUFT xio include counter, generator, comparator and flip-flop functions. In this way the information and measured values from older devices and machines from other manufacturers can be included in the acquisition of production data.



The HEUFT data concentrator: the communication interface



Archiving the data of inspection devices which is relevant as regards production is growing in importance not least for reasons of product liability. The counted values and setting values of all the devices of the HEUFT *SPECTRUM TX* series can be transferred to production data acquisition (PDA) systems using the HEUFT data concentrator software in exactly the same way as test bottle

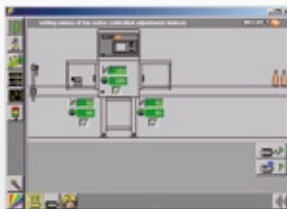
logs, filler valve statistics and all other relevant performance indicators.

In addition the DDE, SQL, XML and OPC protocols as well as the Weihenstephan protocol 2005 are also available based on an Ethernet network connection. In this way almost every HEUFT device can be connected to your PDA system by means of plug and play. It is also

easy to implement the time-controlled changeover of checking devices or an automated counter reset using the integrated command table in addition to the acquisition of data.



The HEUFT *PILOT*: always seeing the device status



You wish to view clearly prepared production data directly? And be able to gain from quality documentation which is precisely adapted to your specific requirements? The HEUFT *PILOT* makes it possible! The in-house developed software increases the efficiency in the bottling hall by means of the most up-to-date communication technology with a lasting effect.

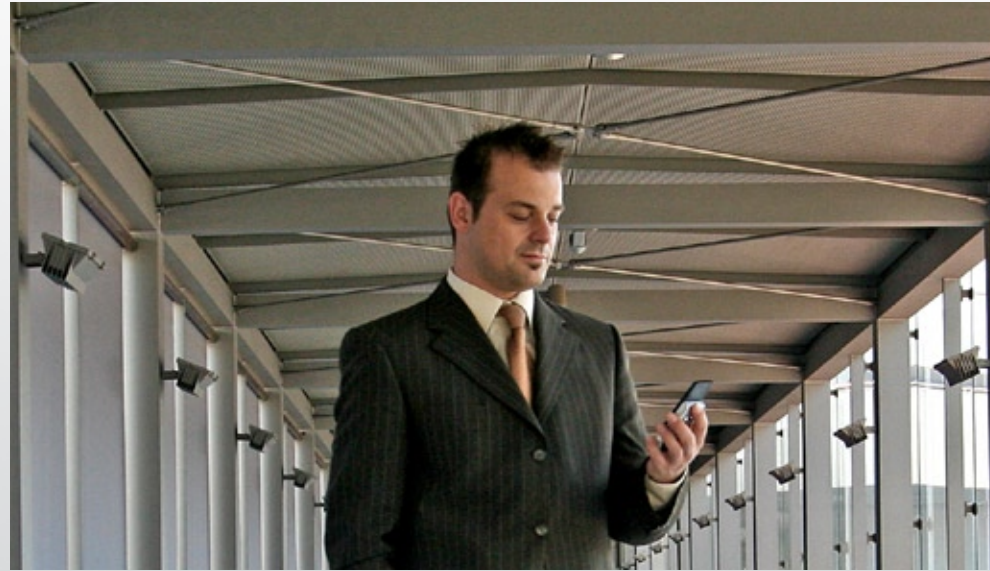
The information from all the networked HEUFT *SPECTRUM TX* systems is visu-

alised on a multilingual, individually adaptable, graphical user interface – not only directly on the device display but also on all the monitors of connected PCs. An easy to understand message system provides a fast overview of the status of the device and exposes the causes of faults immediately.

An integrated assistant makes the operation of the device easier for authorised users. A logbook function monitors desired and unintentional interventions

in the system. The long-term storage of such system manipulations is possible in connection with the HEUFT *PROFILER*. An undo function makes it possible to cancel unwanted changes.

The new direct print function makes the automated printing of relevant reports possible. Also new: the integrated maintenance assistant – a reminder service which ensures that you never miss maintenance deadlines again.



The HEUFT *PEM*: location-independent information management

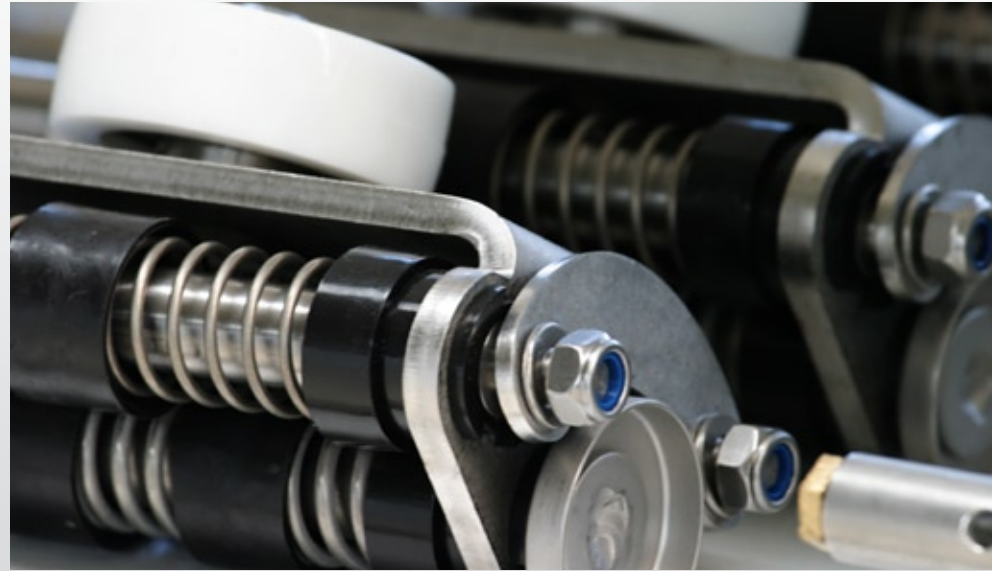


Always informed: the freely configurable personal event manager, the HEUFT *PEM*, which is integrated in the HEUFT *PILOT* sends important indicators regarding the performance of your HEUFT *SPECTRUM TX* series devices exactly there where you wish to view them. The result: shorter information paths and faster reaction times in your company.

Whether counter readings, switching off events, test bottle analyses or changes in sensitivity: selected system messages as well as manual inputs are sent automatically via email or SMS. A glance at your PC, laptop or mobile telephone suffices in order to obtain location-independent clarity regarding counter readings, test bottle logs and malfunctions.

The shift leader automatically receives the most important production figures in the form of a report at the end of each shift. The quality assurance department is informed immediately if the sensitivity of individual detections changes.

It does not matter where you are: all the people who are responsible are always informed with the HEUFT *PEM*.



The HEUFT spare parts management: as easy as a webshop



You can identify, manage and order spare parts independent of your location from all the devices connected to the network quickly and easily with the multilingual spare parts management system integrated in the HEUFT *PILOT*. They are displayed in a clear manner on the user-friendly interface - including useful cross references to general and detailed drawings.

The shopping basket is sent via the HEUFT *PEM* as an email to any address. It can be saved as a text file and transferred to a spreadsheet and databases for further processing at a PC. The data can also be converted into an HTML format and displayed in a web browser. From the integration of the spare parts list in a customer's system up to its display in exploded views: the XML extraction provides a universal starting point for conversion into the appropriate file

formats and spare part numbers. The spare parts catalogue is automatically updated if a device is changed or extended.

Incorrect orders are practically impossible. Because the HEUFT spare parts management system works as easily as a webshop. The HEUFT *TeleService* provides you with additional support when ordering.



Your cost advantages with HEUFT



The IT products from HEUFT combine resources and create synergies which quickly pay for themselves:

- consistent line analysis for a clear increase to the efficiency of the complete line
- the automated logging and analysing of production data saves personnel and material costs
- central, reliable, non-manipulable acquisition of all the relevant data and performance indicators
- shorter information paths and faster reaction times in the case of output losses of the networked machines
- simple, fast and convenient spare parts and maintenance management



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Overview of the IT products

for increased efficiency in the bottling hall



IT products from HEUFT

- The HEUFT *PROFILER elemental*: saving and analysing the elementary quality-related data of all the inspection, transport and labelling systems of the HEUFT *SPECTRUM TX* series
- The HEUFT *PROFILER TX*: extensive production data acquisition (PDA) of all the connected HEUFT *SPECTRUM TX* devices

- The HEUFT *PROFILER*: production data acquisition (PDA) of all the connected machines and permanent line analysis conforming to the Weihenstephan standards
- The HEUFT *xio*: the integration of the production data of old and foreign devices in the PDA system

- The HEUFT data concentrator: the communication interface
- The HEUFT *PILOT*: always seeing the device status – graphical user interface can be used intuitively
- The HEUFT *PEM*: location-independent information management via email and SMS

- The HEUFT spare parts management system: the online management and ordering of spare parts

[more] *

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