

techmews

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HIGHLY EFFICIENT AND SIMPLY EASY!

高效率和简单易行

HEUFT will be presenting easy to use solutions which safeguard product quality, increase the efficiency and productivity of complete filling lines and at the same time reduce energy consumption at the China Brew & Beverage exhibition.

The **HEUFT SPECTRUM** ^{II} is the highlight: the new platform for modular inspection systems makes the continuous tracking of empty and filled bottles, the precise detection of faults and the reliable rejection of the products in question simply easy. Manual intervention by the user is the exception due to the new level of automation. The audiovisual **HEUFT NaVi** user guidance takes him step by step to his goal with regard to all the tasks which arise. Downtimes due to operating errors are practically ruled out as a result. There-

HEUFT 将在中国国际酒、饮料制造技术及设备展览会上提供易于使用的解决方案来保障生产质量,提高效率和灌装整线的生产力,同时降低能耗.

HEUFT ISI 同步串行接口大大减少了新型 HEUFT SPECTRUM "代设备在安

fore line efficiency is already optimised and output increased.

The **HEUFT** *ISI*, an isochronous serial interface, reduces the amount of wiring required during the installation, retrofitting and networking of the devices of the new HEUFT *SPECTRUM* ^{II} generation considerably. At the same time the new in-house developed field bus system minimises the risk of interference and carries out time-critical monitoring functions reliably and without delay: it is always guaranteed even along high-speed lines that all the signal data and information arrives in real time exactly where it is needed.

A steady, pressureless bottle transport with as few gaps as possible results in energy optimised line efficiency. HEUFT will demonstrate how this is implemented using a rotary system which is equipped with, among other

装、改造和联网时所需的布线. 同时,新型内部研发的总线系统能够最小化干扰的风险,可靠地毫迟延地执行时序要求严格的监控功能. 甚至是在高速生产线上始终能够保证所有的信号数据和信息能够及时准确地到达所需要的地方.







things, HEUFT conveyors and the non-contact **HEUFT** *streamer C* corner combiner. The conveyors are driven by the **HEUFT** *beetec*. The servo direct drive reacts to changes in the bottle flow within milliseconds and corrects the transport speed dynamically, extremely precisely and highly efficiently. It achieves the necessary torque without the use of gears. This maximises the system rigidity as well as the precision when

controlling position and speed and prevents energy loss due to friction and waste heat. The HEUFT *beetec* achieves an efficiency of 90 % practically without any wearing parts – electricity consumption is 30% less compared to conventional drives.

The result: less steel and more intelligence for simply more efficiency and profitability when filling, packaging and inspecting in-line!



位置和速度、防止能源因摩擦和多余热量而流失时,最大化提升了系统的刚度及精确度. HEUFT beetec 在没有易损件的情况下切实实现了90%的工作效率-较传统驱动器电源消耗减少了30%.

结论是:在灌装、包装和在线检测时,利用更多智慧及更少钢材便能提高效率、获取更多利润!

HEUFT beetec @ Paulaner: "Leave nothing to chance"! 无懈可击!

The Paulaner brewery in Munich has completely renovated one of its returnable lines. HEUFT has brought the whole area between the washing machine and the filler up to date with the latest technological developments within the framework of this major project. With success: the equipment which has been installed ensures a dynamic, harmonious and quiet container transport as well as a supply of empty bottles which are of the correct type and free from defects.

慕尼黑的 Paulaner 啤酒厂改建了一条可回收线,从洗瓶机到灌装机的整个区域,HEUFT 为这个项目的整个结构提供了最先进的技术. 作为成功案例,所有安装的 HEUFT 设备



Industrial revolution? Sustainable evolution!

工业革命?可持续的进展!

What others proclaim to be a vision of the future has long been the standard at HEUFT. Our inspection systems have been fulfilling the criteria of a "smart device" for decades. The next stage of a continuous evolution in terms of development technology now follows with even more automation, real-time data transmission and a self-explanatory machine human interface.

其他企业宣称的愿景一直以来都是HEUFT的标准。 我们的检测设备几十年来一直实现着"智能设备"



的标准. 现在发展科技 方面下一切更多的自动 一切更多的自动 一切更多的自动 化、言自明的机人界面.

Discover more...

1

SIMPLY EASY!

FINDING FAULTS AND UNCOVERING THE CAUSES 找出错误并揭示原因

Detecting the quality defects of freshly filled bottles and pinpointing the causes at an early stage: this is even more precise and straightforward with the **HEUFT SPECTRUM II VX**!

The system checks the fill level, the closures and the labels of up to 140,000 containers per hour. Permanently monitoring the filler valves and the closer heads protects against high reject rates: error sources are uncovered before they go into production and impair the line efficiency.

The personalised and self-explanatory HEUFT NaVi user guidance greatly reduces the need for manual actions. The fill management system of the new HEUFT SPECTRUM II generation makes error-free operation possible without any previous knowledge.

检测新鲜灌装瓶的质量瑕疵并在早 期找出原因: HEUFT SPECTRUM " VX 使其更加精确直接!

该系统每小时检测多达14万个容器 的液位、封盖及标签.永久监测灌 装机阀及封盖头防止高剔除率的发 生: 提前发现误差源防止其进入生 具人性化且不言自明的 HEUFT NaVi 用户指南大大减少了手动操作.新 HEUFT SPECTRUM II 一代的液位管理系 统使无错误操作成为可能, 并且用

户不需要准备任何知识.



HEUFT

Water Slim Can 250

REJECTING RELIABLY WITHOUT ANY **COMPRESSED AIR**

可靠剔除,不需要任何压缩空气

It is the ideal solution for hygienically sensitive or aseptic lines and wherever the installation of a pneumatic container rejector is not economical. The new HEUFT e-mono manages completely without expensive compressed air! Driven by an in-house

developed electric motor it practically only uses energy during the rejection procedure. The advance force adapts flexibly to the weight of the respective package in the course of this. Therefore faulty containers which are filled quite differently are each rejected exactly the same distance - even at high speeds of up to 180,000 containers per hour. The rejection system is extremely quiet and de facto free of wear and maintenance. The HEUFT e-mono is very compact and easy to install

since frequency converters do not have to be

这是对卫生敏感或者无菌生产线以 的理想解决方案. 新型 HEUFT e-mono 动,几乎只在剔除过程中使用能源. 装的重量. 因此, 每一个不同灌装的 至是在线速高达每小时 180,000 罐的 情况下. 剔除系统十分安静,并且 没有磨损和维护. 由于无需集成变 频器, HEUFT e-mono 非常小巧且容易

及安装气动剔除器不够经济实惠时

THIS IS SELF-EXPLANATORY! 不言自明!

The high degree of automation of the new HEUFT SPECTRUM II platform reduces the need for intervention by the user. However if something has to be done the **HEUFT**

tial the menu structure of the graphical touchscreen user interface is extremely flat, organised and self-explanatory. Contextual messages, tools and assistants inform the user step by step what has to be done when, where and in which order. Consequently he can find his way around intuitively without any special previous knowledge.

The HEUFT NaVi even speaks to the user: Amanda, the Chief Navigator, guides him through all the relevant device functions in a target-oriented manner using clear and simple words! In addition HEUFT checkPoints simplify the specific identification of components which require manual adjustments e.g. during brand changes: the coloured tags not only flash on the display in this case but also exactly there where intervention is

The audiovisual HEUFT NaVi user guidance makes the reliable operation of the inspecgeneration simply easy.

新 HEUFT SPECTRUM II 平台的高度自 动化减少了用户的介入. 但是如果 需要做些什么 HEUFT NaVi 可以使工

图解触摸用户界面的菜单结构极其 烁, 也正是需要介入的时候.

NaVi makes the work simply easy for him. Personalised and focussing on what is essen-

tion systems of the new HEUFT SPECTRUM $^{\mathrm{II}}$

作变得轻松简单.

扁平、有条有理并且不言自明,其 HEUFT NaVi 甚至可以与用户说话:总 的相关功能!此外, HEUFT checkPoints 性识别,如瓶型更换期间:在此情 况下彩色的标签不仅在显示屏上闪

视听 HEUFT NaVi 用户指南使得新 HEUFT SPECTRUM II 一代检测系统的可 靠运行更加轻松简便.

SIMPLY SEEING MORE PRECISELY! 精确度提升了!

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HEUFT sets standards with respect to the allaround inspection of empty containers. The latest example: the **HEUFT SPECTRUM II IXS**! It combines proven optical and electronic detection procedures with the advantages of the powerful HEUFT SPECTRUM II platform and pulsed X-ray technology. Therefore the identification of shell-shaped fractures, chips or glass splinters on the container base is

easier and more precise than ever before. In addition the empty bottle inspector detects, among other things, residual liquid as well as cracks and faults in the sidewall and in the finish area. Every individual container is optimally aligned at all the inspection units in each case so that the examination covers the whole container volume completely. The result: simply more detection accuracy!

HEUFT 设定全面检测空容器的标准. 最新的例子: HEUFT SPECTRUM " IXS! 它结合了行之有效的光学和电子检 测程序以及强大的 HEUFT SPECTRUM !! 平台的优势和脉冲X-ray技术.因 此,容器底部的扇形破裂、碎屑或 者玻璃碎片的识别比之前更容易更

此外, 空瓶检测设备还能检测残 液、裂缝、侧壁及瓶口区域的错 误. 在所有情况下, 每一个单独的

在所有检测 单元上,因 此检查可以 覆盖整个容 器.结论就 是:精确度 提升了!





The **HEUFT** spotter SF now also carries out a fill level, closure, leakage and label check in addition to the reliable detection of foreign objects and defects.

The full bottle inspector which reliably identifies low density foreign objects which are floating about in the product or have sunk to the bottle base such as paper, insects or mould as well as scratches, cracks, inclusions and chips on the container itself using a sophisticated optical method is enjoying a very high demand in China. Additional detection technologies, besides the new HEUFT reflexx² high-performance image processing system, have been integrated into the device in order to fully meet the requirements of the largest beer market in the world for a complete inspection of filled transparent bottles.

This includes in particular:

 optical modules for checking the fill level and the presence of the closure

the HEUFT sonic for the acoustic inspection of the tightness and integrity of crown corks and other metal closures

a label presence check In addition the perfected HEUFT spotter SF

now offers the possibility of a strictly faultspecific rejection: bottles which are contaminated, incorrectly filled, not sealed, with leaks or unlabelled can each be removed separately from the filling line on different lanes if required.

HEUFT spotter SF 除了能够可靠地检 测异物和瑕疵,还能检测液位、封 盖、泄漏和标签.

求, 它通过使用一个技术成熟的 光学方法可靠地识别漂浮在产品 中或沉在瓶底的低密度异物,诸 如纸片、昆虫或者霉斑还有容器 上的刮痕、裂缝、包裹物及碎片 等. 除了新型的高性能图像处理系统

HEUFT reflexx2, 还有其他检测技 术被集成到了系统中, 为了能 够完全达到全球巨大啤酒市场 对于已灌装透明瓶整个检测的 要求.

- 这尤其包括: • 用于检测液位和封盖缺失
- 用于皇冠盖和其他材料封 盖密封性与完整性的声波 检测 HEUFT sonic

标签缺失检测 除此之外,完美的 HEUFT spotter SF 现在能够提供一个严格的具体 错误剔除:如果需要,被污染 的、不正确灌装的、没有密封 的,泄漏的或者没有标签的瓶 子可以分别地从灌装线上剔除 到不同的分道上.



ALWAYS AVAILABLE WHEREVER YOU NEED US!

使命必达!

HEUFT systems are well-known for their longterm operational reliability. Malfunctions only occur rarely. And even then you do not have to be afraid of serious production losses. Integrated tutorials and assistants provide valuable help for self-help. Our 24/7 services are available all over the world and offer even more support: the **HEUFT** *TeleService*, **HEUFT PhoneService** and **HEUFT DirectService**!

Whether online remote diagnosis and maintenance, competent advice or on-site visits: technicians with field experience are on standby around the clock in order to find and solve the respective problem. Therefore the reliable operation of your HEUFT system is

HEUFT系统以其长期的运行可靠性

故障很少发生,您甚至不用担心会 产生严重的生产损耗.综合的指南 帮助.全球化的24/7服务,能够提 供更多的支持: HEUFT TeleService,

HEUFT *PhoneService* 和 **HEUFT** *DirectService*! 无论是在线远程诊断维护、合理建 议还是现场访问: 有现场经验的技 术人员全天候待命, 为的是发现和 解决每个问题. 因此, 您的 HEUFT系 统操作的可靠性总是有保障的.





MORE ROOM — MORE OPPORTUNITIES

更多空间 - 更多机会

What started in 2002 with just five employees has developed dramatically: in the meantime the team at HEUFT SYSTEMS TECHNOLOGY (Shanghai) CO. LTD. comprises almost 100 competent experts. We have extended our Chinese location considerably in order to accommodate them all and at the same time meet the continuously increasing demand for superior HEUFT equipment: a new building of about 1,000 square metres was recently completed. This creates even better conditions with regard to the selling, project planning and commissioning of HEUFT systems, stocking of spare parts, remote maintenance and service. The new customer centre with over 350 square metres of exhibition area and highly modern conference and training rooms provides ideal conditions in order to familiarise yourself with the advantages of our smart systems for utmost safety, quality and efficiency along filling and packaging lines directly on our premises. See for yourself - simply arrange an individual appointment: china@heuft.com

2002 年最开始时仅有5位员工现在 技术(上海)有限公司的专业队伍 也壮大起来,将近有 100 位称职的 员工. 我们大大地扩展了中国地区的 业务, 容纳所有地区同时满足客户 对于优质 HEUFT 设备持续增长的需 求。最近一幢大约为 1000 平方米 的大楼刚刚落成. 这为销售、项目筹 划、HEUFT 系统调试、备件仓储、 远程维护及服务提供了更好的条 件. 展览区域全新的客户中心有 350 平方米, 高度现代化的培训会议室 为熟悉智能系统的优势创造了理想 的条件, 您可直接在现场亲自体验 他们在灌装线及包装线上安全、品 质和高效的表现. 亲眼看看——只需 个人预约: china@heuft.com

SIMPLY EASY!



EMPTY CAN INSPECTION AT HIGH SPEED

高速下的空罐检测

Removing faulty empty cans before they can thwart the productivity of the complete filling line and jeopardize the safety of the final product: this also functions on high-speed lines with the latest version of the HEUFT canLine.

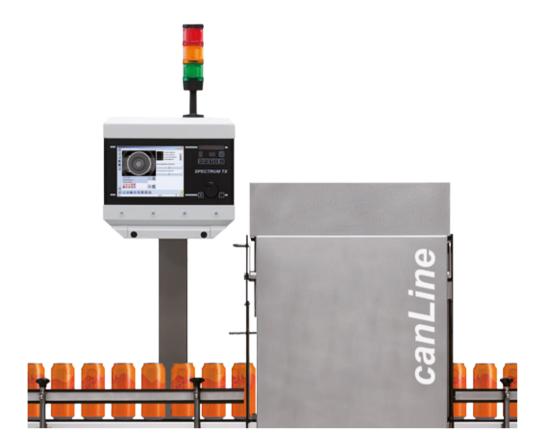
The compact system now checks the quality characteristics of up to 144,000 empty cans per hour due to the new HEUFT reflexx² high-performance image processing system and current software enhancements. Misshapen or faulty flanged edges, which could lead to the practical beverage packaging not being sealed safely or at all and can cause productivity losses due to closer obstructions, are reliably detected. This also applies to dents, bumps and dirt on the inner sidewalls and foreign objects on the base of the container.

The **HEUFT** *canLine* achieves its impressive detection accuracy with an LED illumination without reflections or shadows and only one single camera. It photographs the complete

finish, inner wall and base area from above. The optics system has such a depth of field that minute faults become clearly visible in the high-resolution images even on high-speed can lines.

在有缺陷的空罐阻碍整个灌装线生产力和危害最终产品安全之前将它们移除:这也是新版 HEUFT canLine 在高速生产线上的功能.

HEUFT canLine 能够通过一个没有反射和阴影的 LED 照明和一个照相机达到惊人的检测精度. 它从上面拍摄



整个瓶口、内侧壁和瓶底区域. 如此精深的光学系统使得微小的错误

在高分辨率图像中清晰可见,甚至 是在高速空罐线上.

An active partnership: HEUFT seminar at Carlsberg China 积极的伙伴关系: 嘉士伯中国 HEUFT 研讨会

Representatives from the renowned brewery group discussed solutions for more quality and efficiency with HEUFT experts in Chongqing.



来自著名啤酒集团的 代表在重庆与 HEUFT 专家讨论提高生产质 量和效率的解决方 案.

Discover more...

China is committed to efficiency 中国致力于效率

China is the largest beer market in the world with over 500 breweries and an annual production exceeding 400 million hectolitres – and it is continuing to grow rapidly. Therefore the demand for HEUFT solutions which improve line efficiency and considerably increase output is accordingly high.

中国以拥有 500 多个啤酒厂和超过 4 亿百升的年产量而成为世界最大

的啤酒市场,并且这一市场仍在持续的快速增长. 因此对能够改进生产线效率并极大的增加产出的海富解决方案的需求也相应的增加.



Discover more..

Every thousandth part counts! 每千分之一都有价值!

False rejections equal wastefulness! Innovative HEUFT equipment reduces the proportion of good products which are removed from the production line by mistake. This protects valuable resources, increases output and saves real money.

误剔除就是浪费! 创新的 HEUFT设



Discover more...

24/7 SERVICE WORLDWIDE

IN-LINE INSPECTION MODULAR DESIGN PRINCIPLE

STATE OF THE ART SIMPLY EASY

INNOVATIVE MADE IN GERMANY LINE EFFICIENCY

MODULAR

PRODUCT SAFETY ECO-FRIENDLY QUALITY ASSURANCE

ENERGY EFFICIENCY

BEVERAGE, FOOD AND PHARMACEUTICAL SECTORS
SUSTAINABILITY ECONOMICAL

GET IN TOUCH! 联系我们!

HEUFT Systems Technology (Shanghai) Co. Ltd., CHINA

Peoples Republic of China • 201108 Minhang District, Shanghai • Phone: + 86 21 643439110 china@heuft.com • heuft.com

HEUFT ASIA LTD.

Hong Kong, CHINA Phone: +86 21 6434 0400 asia@heuft.com

HEUFT SYSTEMTECHNIK GMBH

Burgbrohl, GERMANY Phone: +49 2636 56 0 info@heuft.com

HEUFT DO BRASIL Ltda. 💿

Alphaville-Barueri-SP-BRASIL Phone: +55 11 4195 7671 brasil@heuft.com

HEUFT FRANCE S.A.

Brumath, FRANCE Phone: +33 388 59 3000 france@heuft.com

HEUFT LTD.

Tamworth, GREAT BRITAIN Phone: +44 1 827 25 5800 uk@heuft.com

HEUFT ITALIA s.r.l.

Vigevano, ITALY Phone: +39 0381 290 411 italy@heuft.com

HEUFT S.A.

Beccar, ARGENTINA Phone: +54 11 4707 0936 argentina@heuft.com

HEUFT AUSTRIA GMBH

Leobersdorf, AUSTRIA Phone: +43 2256 65556 0 austria@heuft.com

HEUFT HISPANIA, S.A. 🚾

Madrid, SPAIN Phone: +34 91 6667 300 spain@heuft.com

HEUFT SCAN Aps

Gilleleje, DENMARK Phone: +45 4836 5070 scandinavia@heuft.com

HEUFT MEXICO, S.A. de C.V. ■•■

Naucalpan de Juárez, MEXICO Phone: +52 55 556284 50 mexico@heuft.com

OOO HEUFT EURASIA

Moscow, RUSSIA Phone: +7 495 935 8704 eurasia@heuft.com

HEUFT QUALIPLUS B.V.

Deventer, NETHERLANDS Phone: +31 570 6617 00 netherlands@heuft.com

HEUFT USA, Inc.

Downers Grove, USA Phone: +1 630 968 9011 usa@heuft.com

heuft.com

Responsible according to the press law: Jürgen Kurz