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12:00



山东方达产品彩页

SENSOR SOLUTIONS

富林泰克——
称量解决方案

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INNOVATIVE PRODUCTION

技术 质量 服务



FLINTEC's manufacturing base is in Sri Lanka, where some 1000 employees produce our high quality products in two ultramodern facilities totalling 12,000 square metres.

With the opening of a new facility in Katuna-yake in 2006, FLINTEC has laid the foundations for further growth with even more efficient production. Both facilities embrace lean manufacturing techniques with Cellular Manufacturing, Statistical Process Control. Every single process in manufacturing is controlled in accordance with ISO 9000. We can also coordinate and manufacture to our customers' own specific quality standards and the 5S Quality Programme. The key goal here is continuous improvement.

Flintec (富林泰克) 公司创建于1968年，总部设在德国，在英国、美国、法国、瑞典、巴西、俄罗斯、斯里兰卡、印度、中国等国家和地区拥有分支机构和生产基地，是世界上最大的称重传感器制造商之一。公司坚持以人为本，以技术为核心，以质量为生命的企业理念，其核心产品不锈钢全密封称重传感器，以其设计独特、性能优良被广泛应用于各种工业场合。

传感器全部拥有：OIML,NTEP,FM,Ex等国际认证适用于各种恶劣环境，高精度，高可靠性的计量、称重系统和力测量场合。拥有优良的高达C6以上性能和极好的IP69K防护能力，是行业的领导者。



Flintec (富林泰克) 拥有强大的技术力量，在长期为客户良好的服务过程中积累了丰富的现场经验，其资深专业技术人员遍布全球各个分公司，Flintec (富林泰克) 可以快捷有效的为全球客户提供产品选型和各种复杂的应用技术支持。



All under one roof
At FLINTEC we understand the value of running a tight ship. This is why we manufacture all key components in-house. The integrated manufacturing process includes strain gage production, CNC machining, heat treatment, assembly and calibration. This offers several key advantages, as it allows us to adapt to customer requirements quickly while simultaneously guaranteeing high quality and on-time delivery of the finished product.



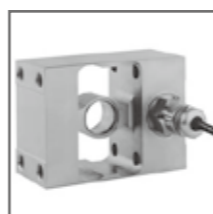
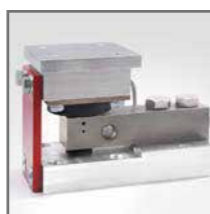
Flintec (富林泰克) 公司位于斯里兰卡的生产基地建于2006年，拥有厂房面积15000平米，员工1000人。工厂获得ISO9000质量管理体系认证，并执行5S质量管理规程，我们的目标是保持永远进步。



BALANCED PRODUCT RANGE

传感器 变送器 显示器

LOAD CELLS AND APPLICATION HARDWARE

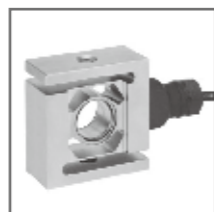


FLINTEC produces load cells for all elds of application in both aluminium and stainless steel, together with accompanying

- Single point load cells
- Planar beam load cells
- Shear beam load cells
- Bending beam load cells
- Compression load cells
- Tension load cells

Flintec (富林泰克) 全系列传感器, 适应各种行业需求, 产品包括: 铝制品、不锈钢制品及安装附件。

- 单点式传感器
- 平板式传感器
- 剪切梁
- 弯曲梁
- 压式传感器
- 拉式传感器



ELECTRONICS

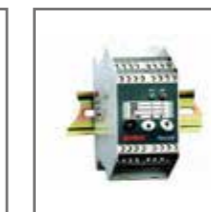


FLINTEC offers a wide range of electronic products for weighing and measurement solutions. These systems combine high precision and high speed processing with high sensitivity and advanced filtering.

- Junction boxes
- Analogue amplifiers
- Digital measuring systems
- Weight indicators
- Weighing controllers

Flintec (富林泰克) 可以提供各种规格的电子显示、控制仪表。显示单元, 系统设备, 具备高精度、高速度的硬件处理单元以及适应不同需求的功能性软件。

- 接线盒
- 模拟变送器
- 数字变送器
- 称重显示器
- 系统控制仪表



Its experienced and well trained team using the most up-to-date technology, develops and manufactures state of the art weighing instruments; its project team, as a solution provider, eliminates customers problems by developing innovative products and special solutions.

经验丰富、训练有素的团队使用最新技术, 开发和制造最先进的称重仪表; 作为解决方案供应商, 其项目团队通过开发创新产品和特殊解决方案解决客户问题。



ACROSS ALL INDUSTRIES

行业解决方案

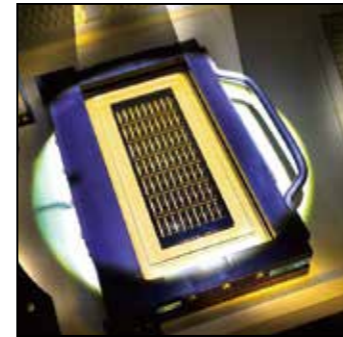
STRAIN GAGES 应变片

All FLINTEC products incorporate strain gages which are designed and manufactured in-house. The range of strain gages are suitable for the most demanding applications. Various strain gage designs are available for the production of application-specific transducers:

所有产品的应变片是由Flintec (富林泰克) 设计和生产, 能满足大部分的应用需求。可定制各种不同的、应用于特殊行业的应变片。

- Constantan foil gages
- 350-2000 Ohm resistance
- Strain gage adhesives
- Strain gage moisture protection coatings

- 康铜箔片
- 350-2000 Ω 阻值
- 专用胶粘剂
- 防潮涂层



FORCE TRANSDUCERS 测力传感器

FLINTEC's force transducers are available in a variety of designs to cater for virtually every application in the test and measurement industry:

Flintec (富林泰克) 测力传感器的多样性能满足每个测试和测量行业的应用。

- Standard shear web transducers
- Fatigue rated shear web transducers
- High precision shear web transducers
- Calibration standard shear web transducers

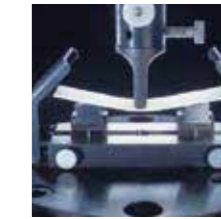
- 标准剪梁式
- 抗疲劳
- 高精度
- 标准校准



GAGING AND DESIGN SERVICE 应力测量和设计

As well as producing a large range of high-grade products, FLINTEC also offers valuable consulting services. These include comprehensive consulting for the design of specific application solutions. FLINTEC also provides a sub-contract manufacturing service for all types of measuring components.

Flintec (富林泰克) 不仅能自主生产高精度产品, 同时也能提供有价值的售前售后服务, 能为客户提供特定定制的解决方案和零部件的分包生产。



过程控制 Process Weighing

- Tanks Silos
- Conveyors
- Bottle filling machines
- Presses
- Plastic injection moulding machines
- Mixing plants

- 料仓/料罐/料斗
- 皮带输送
- 定量给料
- 冲压
- 模具注塑
- 混料器

工业衡器 Weighing Machinery

- Retail scales
- Platform scales
- Truck scales
- Pallet trucks
- Bag filling scales

- 商用称
- 平台秤
- 汽车衡
- 叉车秤
- 包装秤

车载计量 Industrial & Agricultural Vehicles

- Tractors
- Mobile hoists
- Bailers
- Mixing trailers
- Garbage trucks
- Tipper trucks
- Cranes
- Scissor lifts

- 牵引车
- 无线接收
- 水泥搅拌
- 混料车
- 垃圾车
- 翻斗车
- 行车
- 升降机

医疗设备 Medical Devices

- Hospital beds
- Dialysis machines
- Incubators
- Wheelchair scales
- Patient hoists
- Infusion pumps
- Fitness equipment
- Physiotherapy machines
- Baby scales

- 医用床
- 透析设备
- 恒温箱
- 轮椅秤
- 医用升降机
- 输液泵
- 健身器材
- 理疗设备
- 婴儿秤

测试与测量 Test & Measurement

- Crash test systems
- Material test machines
- Fatigue test rigs

- 碰撞试验
- 材料实验
- 疲劳试验

产品定制 Special Transducer Manufacturing

- Research
- Design
- Production

- 研发
- 设计
- 生产

过程控制中的 精确计量和动态称重 Process Weighing



If you weigh the content of a silo, control the blending process of materials or fill solids or liquids, you can trust in the proven technology of Flintec. Accuracy of measurement is the key of modern industrial processes in order to reduce waste, improve efficiency and to maximise profits. Every Flintec product helps actively to achieve these goals.

Efficient material usage, minimised inventory and traceability are mandatory for modern industrial production. The weighing data for the inventory management supports the balancing – from the receipt via the production to the dispatch.

- For automated processes
- Allows for hazardous areas
- Continuous process control
- Optimised material handling
- Allows for agitators
- Process reliability 24 hours / 365 days



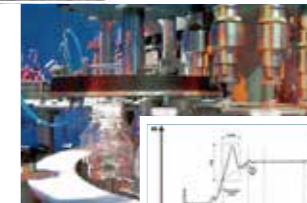
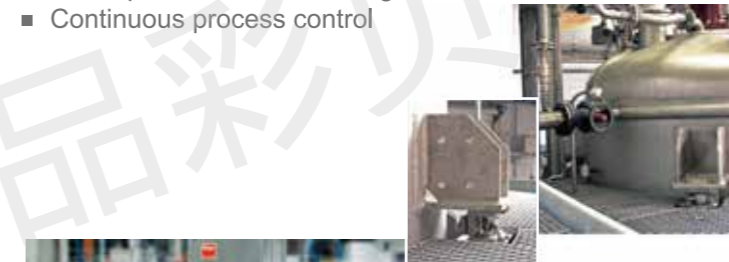
如需测量筒仓物料的重量、控制材料混合过程或填充固体或液体，那么您完全可以信赖Flintec（富林泰克）已经验证的先进技术。精确测量是现代工业过程的关键所在，它可以减少废弃物、提高效率并实现利润最大化。Flintec（富林泰克）的每一件产品都可以帮助您主动实现这些目标。

材料的高效实用、库存的最小化以及可追溯性是现代工业生产的必需条件。库存管理的称重数据支持了从生产收货到分配的整个过程的协调。

- 适用于自动化过程
- 适用于危险区域
- 连续过程控制
- 优化的物料输送
- 可用于搅拌机
- 过程全年可靠

Today highly dynamic filling processes assure machine capacities of 30,000 bottles per hour or even more, e.g. one 500 ml bottle has to be filled within 2s – at a wished standard deviation < 0.3 g. Intelligent filters and evaluation algorithms support our modern process weighing electronics.

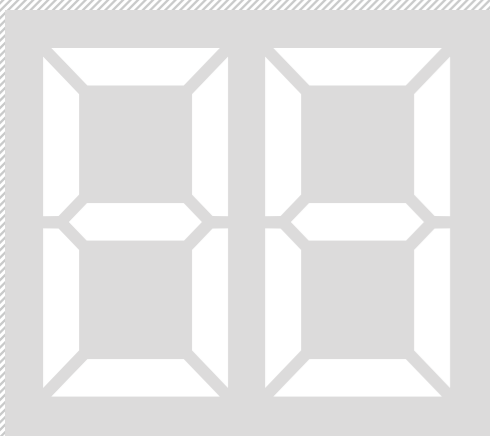
- One or more components
- Liquids or powder material
- Multi-channel weighing electronics with bus connectivity
- Optimised setpoints
- Cost optimised material usage
- Continuous process control



如今，高度动态的罐装过程可确保机器每小时罐装30,000多个空瓶，亦即：一个500毫升容量的瓶子可以在两秒之内装满，而预期标准差小于0.3克。智能过滤器和评估算法是我们现代化过程称重电子设备的基础。

- 一种或多种原料
- 液体或粉末物料
- 总线连接的多通道称重模块
- 最优设定点
- 成本优化的物料使用
- 连续过程控制





kg

工业衡器 Industrial Weighing

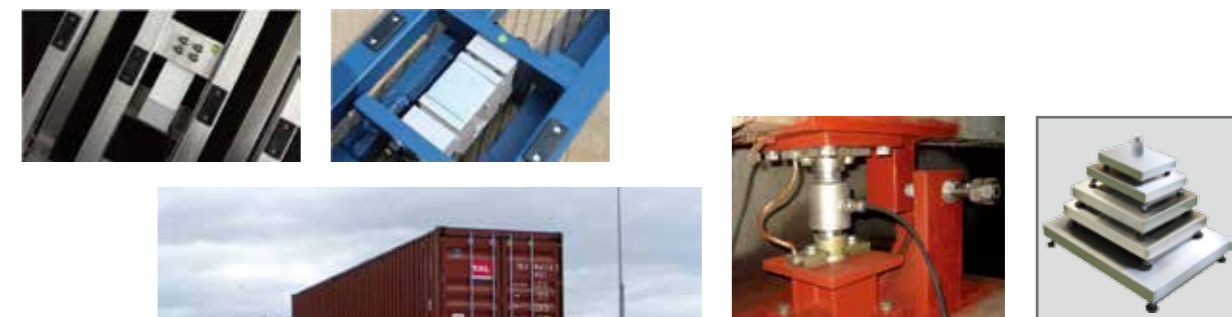


Truck scales normally operate with 4, 6 or 8 load cells and nominal loads of 30 t to 50 t. Thanks to the high in-put impedance of 1,000 Ω , up to 18 RC3 load cells can be connected to a modern weighing display or terminal. Flintec supplies junction boxes with integrated overvoltage protection for 4, 6, 8 or 10 load cells.

An optional flexible steel protection tube can be pulled over the load cell cable and offers real protection against rodents – without gaps from the load cell to the junction box.

The robustness and reliability of the RC3 has been proven again and again over the many years since its introduction – whether in the arctic circle, the tropics or at 4000 m. When installed and used correctly, the MTBF (Mean Time Between Failures) is more than 35 years.

汽车衡通常使用4个、6个或8个称重传感器工作，公称负载为30吨至50吨。由于输入阻抗高达1000 Ω ，多达18个RC3称重传感器可以连接到现代称重显示器或终端。Flintec（富林泰克）供应4个、6个、8个或10个称重传感器的接线盒，带有集成的过电压保护功能。可以在称重传感器电缆上面铺设一根选配的柔性钢保护管，并且具有真正的防鼠功能——称重传感器与接线盒之间没有间隙。RC3自问世以来的许多年里，无论是在北极圈、热带地区还是在4000米处，其坚固性和可靠性都得到了一次又一次的证明。如果安装和使用正确，MTBF（平均故障间隔时间）大于35年。



Ground Weight
Our weighing instrument product portfolio has a variety of models, including products that meet your requirements for various uses, working environment and sensitivity. This includes Atex-certified models based on IP68 protection level or site conditions, and OIML-certified models with steel or stainless steel structures with a range of up to 3000kg.

Table scale
Flintec's series scales are of high quality, high reliability, conforming to international standards, practical functions and economical prices, providing an ideal solution for your enterprise. This includes Atex-certified models based on IP68 protection level or site conditions, with steel or stainless steel structures, and OIML-certified models with a range of up to 600 kg.

电子平台秤
我们衡器产品组合有各种型号，包括满足您对各种用途、工作环境和灵敏度要求的产品。这包括基于IP68防护等级或现场条件的ATEX认证的型号，以及具有钢结构或不锈钢结构，量程高达3000kg的OIML认证的型号。

台秤
Flintec（富林泰克）的系列台秤质量高，可靠性高，符合国际标准，功能实用，价格经济，为您的企业提供了理想的解决方案。这包括基于IP68防护等级或现场条件的ATEX认证的型号，具有钢结构或不锈钢结构，量程高达600kg的OIML认证的型号。





智能物流 Intelligent Logistics



Logistics includes effective and efficient planning, transportation, warehousing, handling and mobile control, service or information flow of any type of product in the supply chain, covering the starting point to the end of consumption to meet customer needs. With 30 years of engineering knowledge and experience, we can easily control the logistics needs of various industries to provide effective solutions. With our wide range of products and equipment for weighing, size measurement and scanner, we have developed economic and professional solutions for successful implementation, especially for packaging, warehousing and transportation processes. Safety technology products and solutions with easy control and high sensitivity are designed for you to use without any problem for many years.

物流包括供应链内有效和高效规划、运输、仓储、搬运以及任何类型产品的移动控制、服务或信息流，涵盖消费的起点至终点，以满足客户的需求。凭借30年的工程知识和经验，Flintec（富林泰克）为各行业的物流需求提供有效的解决方案。凭借我们广泛的产品范围以及用于称重、尺寸测量和扫码器的设备，我们开发了成功实施的经济且专业的解决方案，特别是有关包装、仓储和运输过程的解决方案。Flintec（富林泰克）高灵敏度的安全技术产品和解决方案专为供您毫无问题地使用多年而设计。



Dimension and Volume Measurement Dynamic Cargo/Packaging/Packaging Measurement Maximum efficiency and minimum cost

尺寸和体积测量动态货物/包装/包裹测量 最大效率与最低成本



Flintec's DWI is a sensitive and dynamic automatic measurement/identification system developed for warehousing and logistics implementation, in which tangible or intangible packaging loads are transmitted through transmission lines, while size and weight measurement and label information scanning are performed.

Pallet scale
You can use Flintec's tray scale to facilitate the weighing and lifting process in your warehouse; to lift your load, read its weight, and transport it to any predetermined destination. Flintec's tray scale is designed according to industrial standards to operate safely and accident-free during entrance.

Forklift Scale Goods Receiving/Transporting
You can save time and effort during the operation of weighing and the recording of the weights you repeatedly load and unload on weighing instruments during the transit of goods. Your current forklift can be easily converted to a commercially approved mobile scale by replacing the forklift or bearing plate.



Flintec（富林泰克）的DWI是一个灵敏和动态自动测量/识别系统，专为仓储和物流实施而开发，其中有形或无形形状的包装负载通过传送线传输，同时进行尺寸和重量测量以及标签信息扫描。

托盘车秤
您可以使用Flintec（富林泰克）公司的托盘车秤方便您仓库中的称重和吊装过程；提升您的载荷，读取其重量，并将其运送任何预定的目的地。Flintec（富林泰克）公司的托盘车秤根据工业标准而设计，以便在进场期间安全无事故地作业。

叉车秤货物接收/运输
在操作称重以及在货物转运期间您反复在衡器上装卸重量的记录工作期间您可以省时省力。通过更换叉板或承载板即可轻松地将您当前的叉车转换为商业认可的移动秤。



车载称量解决方案

Industrial & Agricultural Vehicles



Flintec supplies a broad range of measurement solutions for the off-highway, agricultural and on-board vehicle weighing market. Combining our years of experience of strain gauge design and manufacture we have become a recognised source for high quality, high performance solutions for a diverse range of applications. Alongside our standard range of products we also develop and manufacture custom solutions from standalone weighing and force sensors to complete weighing systems. Our products are renowned for their accuracy, durability and innovation. Our focus is upon understanding our clients needs and providing a solution that exceeds both the commercial and performance criteria.

Flintec (富林泰克) 公司可为非公路、农业和车载汽车称重市场提供各种广泛的解决方案。结合多年的应变计设计和生产经验，我们已成为各类应用的高质量、高性能解决方案的公认来源。除标准产品系列外，我们还开发和生产从单机称重和力传感器到全套称重系统的定制式解决方案。我们的产品以精确、耐用和创新而闻名于世。我们一直注重了解客户需求，以期为客户提供商业和性能卓越的解决方案。



- Load cells are installed in the spreader twist locks to monitor the weight and load distribution in shipping containers; thereby eliminating dangerous situations and extending equipment life.
- Modern garbage trucks are fitted with load cell based weighing equipment to either permit pay-by-weight transactions or to help in the efficient deployment of the vehicle and operators.
- Aerial work platforms are prone to overload or being operated on uneven terrain, leading to potentially dangerous conditions for operators and other personnel on site.
- 安装在吊具扭锁上的称重元件用于监控运输集装箱内的重量和负载分配；因而可以消除危险，延长设备寿命。
- 现代化垃圾车都配有称重系统，可用于计重收费交易，或协助有效部署车辆和操作员。
- 高空作业平台经常遇到超载或作业地面不平的问题，这对操作人员和现场其他人员都会带来潜在危险。





医疗应用解决方案

Medical Application Solutions



Flintec is established as a leader in the field of weighing and force sensing solutions for the medical device industry. Combining our years of experience of strain gauge design and manufacture we have become a recognised source for high quality, high performance solutions for a broad range of devices from patient handling equipment to intensive care equipment. We develop and manufacture custom solutions from stand-alone weight and force sensors to systems that utilise our proprietary electronics, software and hardware. In addition we provide our clients with a contract manufacturing service for complete medical devices – procuring material, assembly and calibration.

Flintec (富林泰克) 公司是医疗器械行业中称重及力传感解决方案领域公认的行业领袖。得益于我们在应变仪设计和制造领域多年的丰富经验，我们已成为业内公认的高品质、高性能医疗器械解决方案提供商——从病人运送设备到重症监护设备等不一而足。借助专有的电子仪器、软件和硬件，我们可开发并交付从单机称重仪到力传感器等多种医疗器械的定制式解决方案。此外，我们还为客户提供从材料采购到设备组装和校准的全套医疗器械合同制造服务。



Dialysis equipment

Flintec provides dialysis machine manufacturers with a combination of proprietary load cells, electronics and software combined in one packaged scale solution. The ISO13485 approved manufacturing facilities of Flintec are essential in ensuring that the calibrated weighing scale in each dialysis machine is not only accurate but is capable of delivering hours of continuous trouble free operation.

透析设备

Flintec (富林泰克) 为透析机制造商提供全套计量秤解决方案，将专有的测压元件、电子器件和软件等整合为一体。Flintec (富林泰克) 拥有经ISO13485认证的制造设备，对于确保每台透析机的校准计量秤不但精确而且数小时连续、顺畅运行方面至关重要。



Hospital beds

Flintec has developed a range of load cells and electronics for incorporating into the bed frame to either continually or at a push of a button measure the patient weight change. The accuracy of such weighing systems is guaranteed irrespective of patient position or inclination of the bed. Flintec can provide load cells with third party accuracy certification for such applications.



医院病床

Flintec (富林泰克) 公司开发了多种与床架相集成的测压元件和电子器件，以实现对人体重量变化的连续或是一键式测量。而且，这些称重系统的精确性不受病人体位和病床倾斜度的影响。富林泰克可提供测压元件，经第三方认证，这些元件的精确性符合病床应用要求。



Comprehensive Measurement Solution

全面计量解决方案

