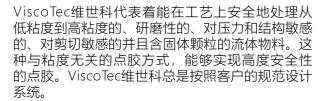




技术: 我们能实现最高的精度

TECHNOLOGY – MAXIMUM PRECISION IS OUR CLAIM



核心竞争力

对我们的产品质量起决定性作用的因素是:定子和转子之间几何结构的完美匹配,以及为定子选择合适的合成橡胶。每种合成橡胶都具有专利配方。它们能够确保最佳的并且持久的运行。

德国制造

所有的流程都是在ViscoTec维世科位于德国Toeging 的总部制定和实施的。它们遵循"德国制造"的品质和"全球思考,本地行动"的独特方法。

ViscoTec stands for process-safe handling of low to highly viscous, abrasive, pressure and structure-sensitive, shear-sensitive and solids-laden fluids. This viscosity-independent dispensing makes it possible to dose with a high degree of safety. Systems are always designed to customer specifications.

CORE COMPETENCE

Decisive for the quality of our products: A perfectly matched geometry between stator and rotor, and the selection of a suitable elastomer for the stator. The various elastomers are proprietary formulations. They enable optimal and long-lasting operation.

MADE IN GERMANY

All processes are developed and implemented at ViscoTec's headquarters in Töging. They follow the distinctive quality feature 'Made in Germany' and the 'think global, act local' approach.



我们的技术

容积式计量和填充系统基于无限循环活塞原理, 适用于从低粘度到高粘度的液体。

每个应用的核心都是基于容积输送的计量泵。转子和定子的相互作用,为物料的输送提供保证,该功能类似于无限移动的活塞。

这能够确保压力的稳定和泵的线性特性。明确说明了流量与转速、时间之间的比例关系。因此可以输送任何体积的物料,在泵出口处可达到±1%的点胶精度(也取决于材料自身的特性)。

OUR TECHNOLOGY

Volumetric dispensing and filling systems are based on the ENDLESS PISTON PRINCIPLE and are used for low to high viscosity liquids.

At the centre of each application there is a purely volumetric dispensing pump. The interaction of rotor and stator results in a delivery and metering characteristic that resembles an endlessly moving piston.

The resulting pressure-stable, linear pump characteristic curve provides a clear correlation between the ratio of rotation, time and flow rate. Any volume can be dispensed and a dosing accuracy of \pm 1% (depending on the material) can be achieved at the pump outlet.

物料及其要求

MATERIALS & THEIR REQUIREMENTS



例如:用于密封 eg. sealant applications

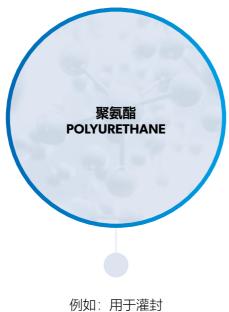
硅胶

SILICONE





例如:用于粘合 eg. adhesive applications



eg. potting applications

属性 详情 **PROPERTIES** MORE SPECIFICALLY **DISPENSING PROPERTIES** 料 剪切敏感的材料的点胶 阻燃剂,空心玻璃微珠 Fillers Flame retardants, glass hollow spheres Shear sensitive processing 压缩性 聚合物空心微球 低压力点胶 Low pressure dispensing Polymer hollow spheres Compressibility 点胶与粘度无关 流变特性 触变性 Rheological particularities Thixotropy Viscosity independent dispensing 高达100:1,短时固化物料 Up to 100:1 with short pot lives 混合比 混合比可调 Mixing ratio Adjustable mixing ratio 粘度 高达数百万mPas 适用于高粘性流体 Viscosities Up to several million mPas Suitable for highly viscous fluids



产品组合

PRODUCT PORTFOLIO

单组份和双组份材料的清空、处理和输送过程中 Efficient product handling for the emptying, supplying 的高效产品处理:包括直观的控制技术。我们的 产品特别适用于"需要被处理并被集成到客户生产 过程中"的物料。

and dispensing of 1-component and 2-component materials - including intuitive control technology. Our products are specially adapted to the material to be processed and integrated into your production process.

物料排空系统

为无缝、不间断生产提供持续稳定的物料供应。

容器尺寸: 180 毫升~1000 升 最大4升/分 排空能力:

粘度: 高达7,000,000 mPas

MATERIAL EMPTYING SYSTEMS

Continuous and constant product supply for seamless, uninterrupted production.

Container size: 180 ml – 1,000 l Emptying capacity: up to max. 4 I/min Viscosities: up to 7,000,000 mPas



ViscoMT-CM



ViscoMT-D



ViscoMT-XS

物料处理系统

对点胶材料的特别处理(缓冲、脱气):对膏料和 液体进行均质和脱气,实现可靠的点胶。

容器尺寸: 2.5升/3.5升/15升/25升

最大1升/分 排空能力:

粘度: 高达2,000,000 mPas

MATERIAL TREATMENT SYSTEMS

Individual treatment of the dispensing material (buffering, degassing): Homogeneous and air-free or bubble-free fluids and pastes for a reliable dispensing process.

Container size: 2.51/3.51/151/251 Emptying capacity: up to max. 1 I/min up to 2,000,000 mPas Viscosities:



ViscoTreat-Im



ViscoTreat-R



ViscoTreat-I

用于点胶、涂层、喷涂和填充应用的点胶阀和泵

可靠、准确、自动化和可重复性:用于精密地处理物料,精准地遵循混合比。

体积流量: 最小点胶量: 混合比: 应用领域:

0.1毫升/分~20升/分 0.001毫升

1:1至100:1

应用&实施,涂层、 填充、双组份点胶、灌封、喷涂

DISPENSERS AND PUMPS FOR DISPENSING, **COATING, SPRAYING AND FILLING APPLICATIONS**

Reliable, accurate, automatic and repeatable: For precise material handling and maintaining an accurate mixing

Volume flow: Min. dispensing quantity: Mixing ratio: Areas of application:

0.1 ml/min – 20 l/min 0.001 ml 1:1 to 100:1 coating, filling, 2-component dispensing, potting, spraying



RD-EC Spray



ViscoDuo-VM



vipro-DUOMIX

模块化系统

基于我们的工艺技术专长,我们根据您的流程调整 系统,并为您提供额外的工程和咨询服务。

MODULAR SYSTEM

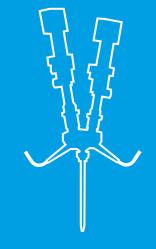
Based on our process know-how, your system will be individually adapted to your process – including engineering and consulting.



物料清空 Material empyting



物料处理 Material treatment



Dispensing

工程&咨询服务

ENGINEERING & CONSULTING SERVICES







1, 咨询

经过方案咨询和工艺开发的解决 每个应用和每个工艺都有自身的 方案,可以获得最佳结果。我们倾听 您的需求和要求,并提供丰富的行业 经验。作为我们的客户,这将为您 节省宝贵的时间和资源。

1. CONSULTING

process development lead to optimal results. We listen to your requirements and requests and offer our extensive experience. As our customer, this saves you time and resources.

2,选择合适的点胶设备

规范。满足这些规范并响应客户的个 性化需求,是我们系统设计中的一个

2. CHOICE OF SUITABLE **DISPENSING EQUIPMENT**

Solutions with conceptual consulting and

Every application and every process has a binding specification. Fulfilling these specifications and responding to the individual requirements of the customer is an important milestone in the design of our systems.

3, 选择合适的点胶嘴

只有与正确的点胶嘴相结合才能实现 最大的精度。我们在点胶嘴开发领 域不断积累经验, 使我们能够满足最

3. DETERMINATION OF THE APPRORIATE NOZZLE

Maximum precision can only be achieved in combination with the correct nozzle. Our increasing experience in the field of nozzle development enables us to meet even the highest requirements.



4,验证正确的应用参数

我们支持客户定义正确的工艺参数。 实验室的试验和我们几十年来获得的 知识, 能帮助我们找到正确的解决 方案。

4. VALIDATION OF THE CORRECT **APPLICATION PARAMETERS**

We support our customers in defining the right process parameters. Trials in our laboratories and the knowledge we have acquired over decades, help us find solutions.



5, 集成到整个工艺流程中

为了能够为客户提供一个功能全面的 系统, 我们将重点放在通信接口上。 只有这样, 我们的产品才能完美地 集成到客户现有的工艺流程中。

5. INTEGRATION INTO THE COMPLETE PROCESS

To be able to offer the customer a functioning overall system, we focus on the interfaces. Only in this way can our products be perfectly integrated into the existing ted to the life cycle of the systems. process.

6,售后服务

为了在系统实施后支持我们的 客户,我们提供广泛的售后服务 贯穿系统的整个生命周期。

6. AFTER SALES

In order to support our customers after the implementation of a system, we offer a wide range of after sales services - sui-

应用概述

AN OVERVIEW OF THE APPLICATIONS



碳纤维增强合成材料结构的密封与粘合

- 可从任何容器中清空物料
- 确保正确的混合比
- 最大的过程稳定性

SEALING & BONDING OF CFK STRUCTURES

- Material emptying from any container
- Correct mixing ratio
- Maximum process stability



密封翼壳

- 适用任何接缝轮廓的密封
- 满足高的公差要求
- 适用可压缩材料

SEALING THE WING SHELL

- For any sealing seam contours
- Fulfilment of narrow tolerance windows
- Suitable for compressible materials



表面涂层应用

- 在微米范围内的喷涂应用
- 喷涂底漆、助剂、清漆和面漆 温和处理物料

APPLICATION OF SURFACE COATINGS

- Spray application in the μ-range
- Spraying of primers, promoters, lacquers and top
- Gentle material handling

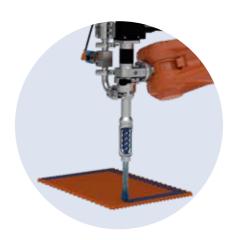


铆钉和螺钉的密封

- 适用于各种密封盖
- 工艺安全的点胶
- 无需预成型或模制密封盖

SEALING OF RIVETS & SCREWS

- For various sealing caps
- Process-safe dispensing
- No pre-forming or moulding of seal caps is



夹层结构的填充

- 用于嵌件、边缘与结构紧固件
- 可以从大型容器供料
- 消除物料浪费

FILLING OF SANDWICH STRUCTURES

- For inserts, edges & structural reinforcements
- Processing from large containers
- No material waste

在一段时间内密封

SEALING OVER THE COURSE OF TIME

无论是边缘密封、倒角密封、盖密封还是接口 Whether Edge Sealing, Fillet Sealing, Cap Sealing or 密封:通常是使用预混合冷冻或双组份物料筒 (阻透注射筒) 来手动密封。

它们含有一定量的树脂和固化剂。然而,在大多 数情况下,这一数量是不够的,并导致物料损耗

通过ViscoTec维世科的自动化解决方案,将要点胶 的两种成分可以单独存放在更大的容器中,并根据 需要讲行混合。

Interface Sealing – mostly premixed-frozen or 2-component cartridges (injection barrier cartridges) are used for the manual activity of sealing.

They contain a specified amount of resin and hardener. In most cases, however, this quantity is not sufficient and causes increased material wastage.

With ViscoTec's automated solution, the two components to be dosed can be purchased separately in larger containers and mixed as required.

行业现状 **CURRENT SITUATION IN THE INDUSTRY**



不投资

No investment

工艺没有变化 No change to the process

大量的后勤工作 Massive logistical effort

由于使用小包装,物料成本较高 High material costs due to smaller containers

由于消耗量与需求量不一致, 导致物料浪费多 High material waste due to the consumption not being in line with demand

由于手动应用(给部件贴胶带、 应用后的清洁、返工),导致加工速度慢 Slow process speed due to manual application (taping of the component, cleaning after application, reworking)

混合质量差的风险 Risk of poor mixing quality

VISCOTEC 维世科带来的新的可能性和机遇

OPPORTUNITIES WITH VISCOTEC

简单优化:根据需要填充料筒 SIMPLE OPTIMIZATION: FILL CARTRIDGES AS REQUIRED



最佳的采购条件 Optimal purchasing conditions

按需配料,物料浪费最小化(不需要丢弃混合料筒) Minimal material waste due to demand-oriented dispensing (no throwing away of mixed cartridges)

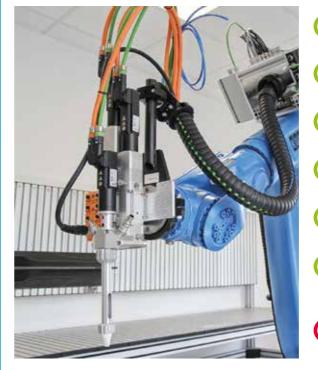
减少后勤工作量 Reduced logistical effort

能够简单加入到整个工艺流程中 Simple implementation into the overall process

混合均匀 Homogeneous mixing

> 仍然是手工操作, 因此在人为错误和返工方面没有改进 Still manual application, therefore no improvement regarding human error and reworking

效率最大化: 最高质量的全自动化方案 MAXIMUM EFFICIENCY: FULLY AUTOMATED IN HIGHEST QUALITY



最佳的采购条件 Optimal purchasing conditions

100%与需求量一致的物料消耗 100 % material consumption in line with demand

可以实现全自动化 Complete automation is possible

符合精确的规范要求 Compliance with precise specifications

无人为错误 No human error

循环时间较之前显著提升 Significant increase in the previous cycle time is possible

一次性投资成本较高 Higher one-off investment costs

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