

Automated dispensing across industry

Another excellent issue of ***FAST*** magazine has recently crossed our desk; editor Brian Wall continues to pack it with great content about fastening & assembly solutions and technology.

It includes an article from us entitled ***Automated dispensing across industry*** – the applications and benefits of automated adhesive and sealant dispensing are manifold, with manufacturers reaping many advantages.

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ADDITIONAL

DISPENSING BENEFITS

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The applications and benefits of automated adhesive and sealant dispensing are manifold, with manufacturers reaping many advantages

The earliest reference to a sealing machine came from Rome of Alexandria in the first century, where herons used a cone and dispenser body water to cork.

The fundamental principles of a sealing machine require it to dispense the correct product at the correct time and in the correct quantity. Therefore, for an adhesive or sealant to function effectively, it is important that it is applied in the correct quantity and in the right location.

Over the years, many types of adhesive dispensing machines have been developed for use in a wide range of applications, from the construction of roads and bridges to the manufacture of electronic components.

"In manufacturing, the trend towards miniaturisation is increasing the requirement for tighter tolerances in dispensing processes,"

of dispensing applications, the precision and accuracy of the dispensing process are critical. The most common dispensing method is the use of a syringe, which allows the operator to control the amount of material dispensed. However, this method is often slow and prone to human error. Automated dispensing systems, on the other hand, can dispense material with much greater precision and speed. They can also be programmed to dispense material in a specific pattern, which is useful for applications such as the manufacture of electronic components. In addition, automated dispensing systems can be used to dispense a wide range of materials, from adhesives and sealants to paints and coatings. This makes them a versatile tool for many different types of manufacturing processes.



problematic areas of the job. The system also offers precise control over the amount of material dispensed, which is important for applications such as the manufacture of electronic components. In addition, automated dispensing systems can be used to dispense a wide range of materials, from adhesives and sealants to paints and coatings. This makes them a versatile tool for many different types of manufacturing processes.

Rising to the challenge

Parkinson Harwood Technology is an electrical engineering company that has developed a range of automated dispensing systems for use in a wide range of applications. The company's systems are designed to be highly accurate and reliable, and they can be used to dispense a wide range of materials, from adhesives and sealants to paints and coatings. The company's systems are also designed to be easy to use and maintain, which makes them a popular choice for many different types of manufacturing processes.

result is, however, "because the system was made a mixture of the fibre level and the dispensing equipment allowed the view. Previous efforts had resulted in the system being dispensed horizontally, resulting in material to prevent the system from and finally electronic components, leading to scrapage and reduced yield."



Below: A Parkinson Harwood Technology (PHT) two-part dispensing system, shown in operation.

project and therefore achieved better quality results, reduced scrapage and increased yield." Meanwhile, in the Harwood Medical device process, the system is of the utmost importance for a device to meet compliance for CE marking under the Medical Device Directive (MDD). Medical device manufacturers of the Harwood Medical Canada, where a two-part epoxy to bond the two halves of the device together.

"The video is used for precision tracking of the system, which can monitor the rate of material with an accuracy of 0.1mm, which is essential for the system to be able to dispense material in a precise manner. To achieve this, the system requires a dispensing system that can precise, accurate and control and control in the correct ratio."

Multiple advantages

Dispensing and dispensing via a pump into a tube (which is mounted on a stand) is a common method for dispensing material. However, this method is often slow and prone to human error. Automated dispensing systems, on the other hand, can dispense material with much greater precision and speed. They can also be programmed to dispense material in a specific pattern, which is useful for applications such as the manufacture of electronic components. In addition, automated dispensing systems can be used to dispense a wide range of materials, from adhesives and sealants to paints and coatings. This makes them a versatile tool for many different types of manufacturing processes.

system was demonstrated to be the best option," he says. "The system offers a 100% yield during accuracy, plus the 99% repeatability and can dispense volume flows of 0.2 to 12 ml per minute, with a maximum release of 0.001 ml. It also ensures that the volume dispensed was not impacted by viscosity changes."

As a result, the company was able to reduce the volume of epoxy applied to 0.05 g from the previous value of 0.1 g. PHT Medical also benefited from the system's automatic purge at the end of the shot, which eliminates the need for cleaning the nozzle.

As well as being available in compact, high-quality dispensing units, the company has also developed a range of accessories, such as mixing modules, to meet the specific needs of a range of applications, such as the manufacture of electronic components.

As the company grows, "Parkinson Harwood Technology's dispensing equipment has developed into accurate, repeatable and smart technology to meet the specific needs of a range of applications, such as the manufacture of electronic components. The challenge for designers, technologists and engineers is to select the equipment that offers the best solution for the application at hand."

Parkinson Harwood Technology (PHT) is a leading manufacturer of automated dispensing systems. The company's systems are designed to be highly accurate and reliable, and they can be used to dispense a wide range of materials, from adhesives and sealants to paints and coatings. The company's systems are also designed to be easy to use and maintain, which makes them a popular choice for many different types of manufacturing processes.

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Supplied by:



INTERTRONICS

12a Station Field Industrial Estate, Banbury Road, Kidlington

Oxfordshire England OX5 1JD

t 01865 842842 e info@intertronics.co.uk

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