We are delighted to see a full page from us in the latest <u>FAST magazine</u> – a mini-article about the dispensing of adhesives containing microcapsules using the **preeflow** postive displacement pump. <u>Please download</u> and have a read!

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LIQUID ADHESIVES **Microcapsules in** adhesive dispensing technology

These days, we can find microcapsuler In almost every industrial aector, where they take numerous roles. However, dispensing these fingile materials can be a problem since stearly it is mportant that the microcapsules he indumiged by the dispensing process. In adhesive technology, microcapules can fulfil several functions. For example microcapsules may be an integral part of the cosmul of reaction and curing procenses. Some anarrobic threadlocking adhesives contain microcapaules. After applying the adhanive to a screw, the action of acrowing it into a thread barsts applying the adhesive to a screw, the action of acrewing it into a thread bursh the copsules, releasing active materials which can puscles. Gear purpuss might name the subset of the growney work enter, because of the growney involving physical interaction with the subset is continuous, even and worlegs the supart is continuous, even and pulse the supart is in a supart is the placement is also able to pump at very inve rates, and low levels of shear are index pulse.

of these materials can present aime big challenges. The material food and dischallenges. The material feed and di-printing onto the substate must occur without any shear struss to prevent dam-age to the microcoprules. Consequently, piston pumps may not be appropriate if they inshear high pressure (perhaps over



ly precise. Introtrouics has within its port-fulis the endless-piston technology from ViscoTec Grabit which offers these fea-tures. Known as preeflow, the technology offers positive displacement, volumente dispensing pumps that will dispense or dose independent of input pressure, mate-

rial viscosity and ambient temperature. The special geometry of the stator and jotor of the states and juste configuration works at a progressive cavi-ty pump. The rotor scala against the ma-tor, forming a series of spaces or pockets, which translate along as the series created as the rotor rotates, keeping their form and volume. The pumped material is moved inside the

100 psi) or pulation which can harm the pockats. In addition, the pockats are microcapasies. Gear pumps might not shaped such that they taper and overlap;

or dowing units hasted on this technology are available for precision applications. The pumps furture a motor drive unit,

in a pen-like configuration. A separate controller allows programing of the motor speed and number of mations to effect dots or dependin of specific volumes, or continuous beads. When the dispensing operation is complete, the motor can be reversed brieffly to provent stringing or dripping. A disperming needle is fitted to the end of the pen using a standard fair fitting. Crucially, once a material lum been characterized, a desized volume can be selected on the costroller, which is dis-potent repardless of material viscosity changes and independent of ambient terrs

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