

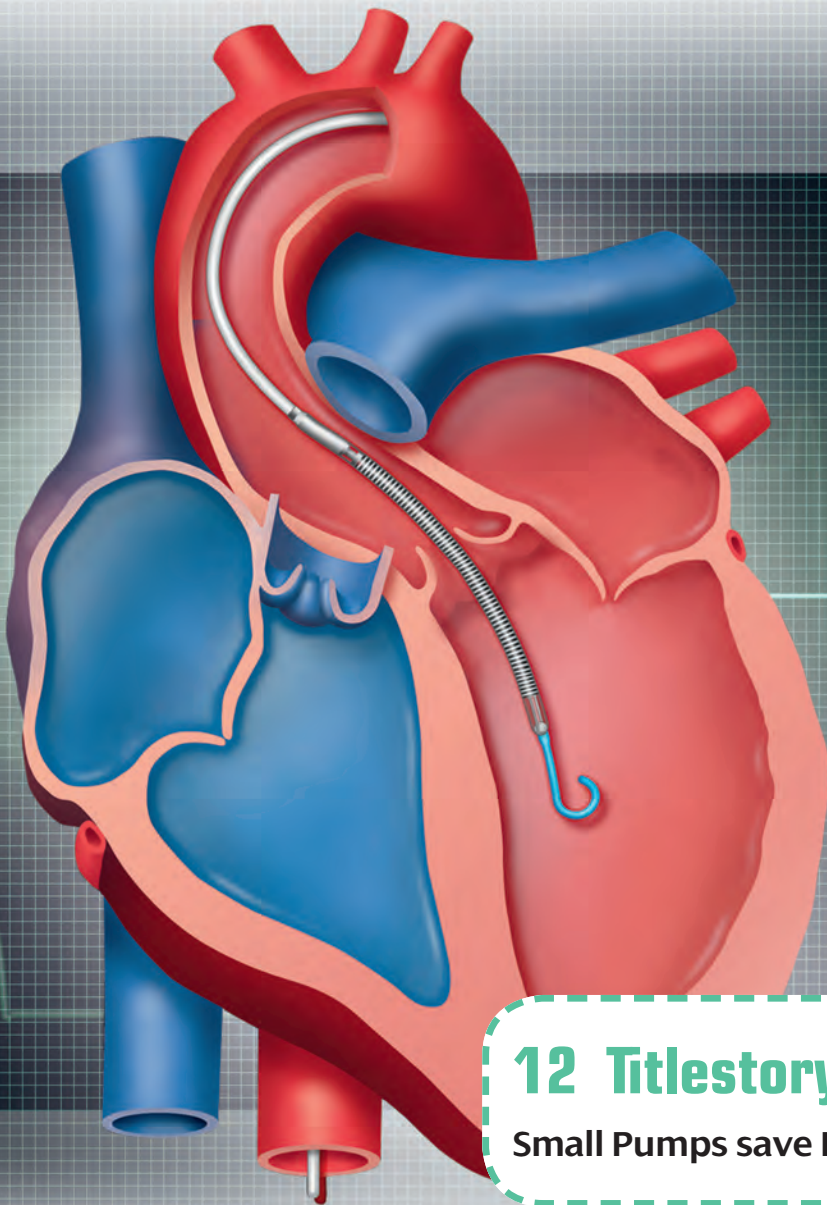
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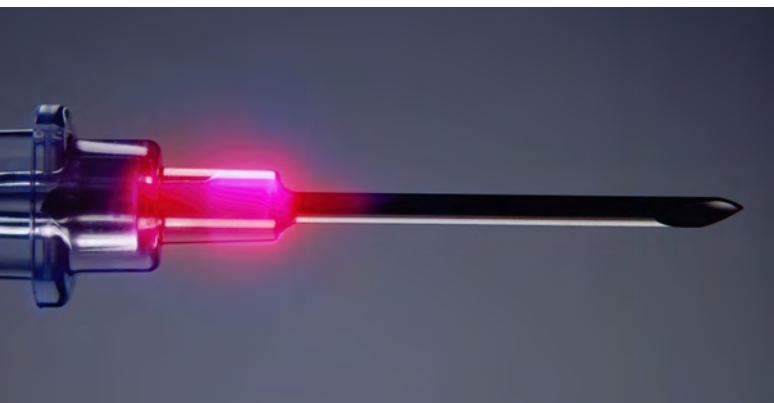


**12 Titlestory**

**Small Pumps save Lives**



**MEDIENGRUPPE  
OBERFRANKEN**  
FACHVERLAGE



It is not always easy to find the right adhesive solution. The search search for an optimum balance of materials and adhesives demands the right combination of product, technology and service.

In doing so, the Wiesbaden team is collaborating closely with the R&D Department of parent company Dymax Corporation in

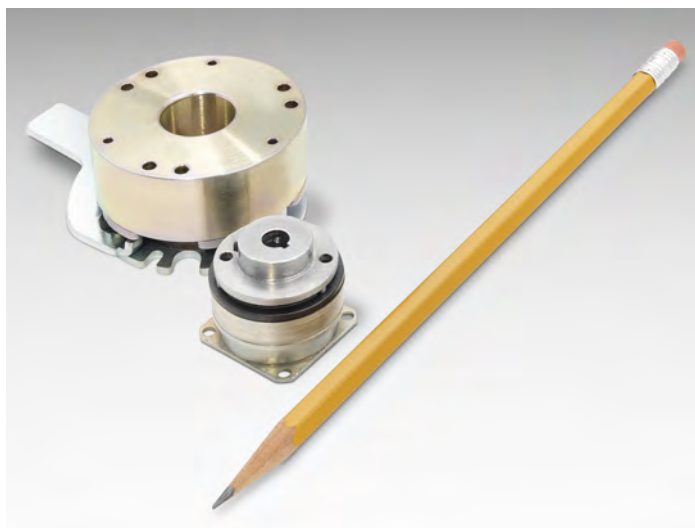
Torrington (USA). Depending on the application area, the light-curable adhesives developed in Torrington – and also in Wiesbaden in the future – bond glass, metals and plastics within seconds. In addition to light-curable materials, the company also offers dosing and curing systems. More expansion steps should continue as part of planning the buildup of its own production in the coming years. ■

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## MINIATURIZED DRIVE COMPONENTS

The trend towards ever smaller, yet powerful, miniature components allows developers to focus on compact, smaller dimensioned devices. Linear and rotary motion products manufacturer Thomson Industries Inc. has responded to this trend and expanded its portfolio with powerful miniature linear motion components. Its portfolio now includes metric bearing blocks up to 3 mm and rolled ball screws up to 6 mm in tolerance class T7. The new TSI series combines a high load capacity, smooth running and low-noise operation with numerous customization options. Interesting for medical applications, Thomson's design concept provides up to twice the load capacity of other manufacturers' systems. The precision-rolled screws of tolerance class T7 are available with diameters from 6 to 14 mm and offer numerous flexible ball nut mounting configurations. The new metric Thomson ball bushing miniature bearings also feature a rugged design and provide smooth, rapid operation in a light, compact assembly. They are also much more durable than conventional linear bearings. Their low weight allows high-precision movement and short acceleration times. Built-in double-lip wipers ensure reliable lubrication, prevent the ingress of dirt and thus contribute to the units' exceptional durability. The Thomson Super type bearing plates ensure quiet operation and further extend the bearing's service life. Corrosion-free versions are optionally available for use in extremely harsh environments. The recently introduced Glide Screw is also available in miniature sizes. It combines the advantages of linear bearings and linear guides in an installation-friendly solution consisting of only a single component. Since external guide components can be dispensed with, it has an unequalled space-saving design. The Glide Screw is a screw-and-nut combination that can take axial, radial and torsional loads without the need for additional guidance. This makes it much less complex and more compact and reliable than conventional solutions. Thanks to its self-lubricating design, it is also virtually maintenance-free. The electric linear technology scores over pneumatic actuators and electromechanical drives with a higher power density and more precise speed and position control. Uniting precise motion with smooth, low-noise operation, Thomson's miniature components are ideal for medical diagnosis and patient handling applications and are also suitable for test and measuring equipment, rapid prototyping and mechatronics applications. In addition to miniature ball screws, linear bearings, profile rails, brakes and linear drive systems, Thomson's extended range of miniaturized components now also includes the new, metric, precision-rolled ball screws, the metric ball bushing linear bearings and the innovative Glide Screw. According to Thomson, device designers are increasingly looking for solutions that are even more compact without compromising on performance. This demand is now met by the extended miniature series. For application engineering, this product family ensures faster design times, simplified installation, optimized overall device operation and higher reliability.



[www.thomsonlinear.com](http://www.thomsonlinear.com)