



Press release

Approved for publication

Elliptec Motors in HPLC

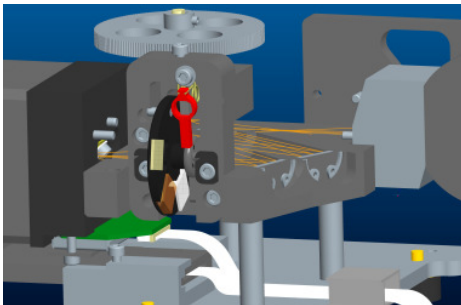
Dortmund, August 2008: Wissenschaftliche Gerätebau Dr. Ing. Herbert Knauer GmbH is Germany's first manufacturer of osmometers and high performance liquid chromatography systems (HPLC) and part of the TOP100 most innovative medium-size companies of Germany. In April 2008, the company introduced the ultra-fast PLATINblue UHPLC, which is superior to other fast chromatography techniques. Faster analysis means increased productivity and more samples can be tested in a shorter period.

Piezoelectric drives of Elliptec Resonant Actuator AG are used to position PLATINblue's order sorting and line filters. The 1.2 grams light Elliptec Motor positions the filters exactly with single-digit μm -precision. The Motor receives the position feedback from the measuring unit itself. Each filter position is learned during a calibration run when transmission gradients are measured. Limit switches serve as reference points and the mechanical filter positions can henceforth be addressed reproducibly. The filter wheel is rotated with a resolution of a few millirad. Switching times are between 50 and 100ms.

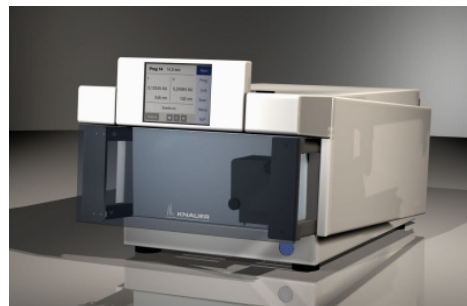
The Elliptec Motor X15G replaces the commonly used worm-gear stepper motors and offers considerable cost savings. No additional sensors are needed, which further lowers system cost.

Elliptec AG is a spinoff company of Siemens AG; a team of developers founded the independent Elliptec Resonant Actuator AG in 2001. Elliptec AG manufactures low-cost piezoelectric motors and actuators in Dortmund, Germany. Elliptec AG also offers engineering and system integration services for medical, consumer goods, industrial electronics, and toys. Elliptec AG is DIN EN ISO 9001:2000 certified for a high standard of quality and quality control.

HPLC is an analytic method in chemistry. HPLC is a liquid chromatography method that not only separates substances from each other but also identifies and quantifies (determines their exact concentrations) them according to technical standards. PLATINblue is a trademark of Gerätebau Dr. Ing. Herbert Knauer GmbH, Germany.



Elliptec Motor X15G (red) as direct drive in PLATINblue UV1



PLATINblue UV1

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