

## Press Release

For immediate publication

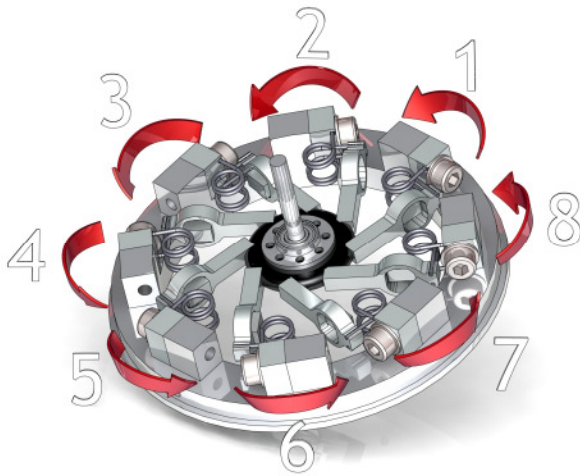
### Sequential motorcontrol - a new control method for multi-motor applications that also reduces energy consumption

*Dortmund, February 2008:* The force produced by the Elliptec Motor is augmented when multiple motors are used in parallel. Elliptec's sequential motor control drives single motors in quick succession rather than simultaneously, i.e., only one motor operates at any given time while the others stand by. The active motor builds up tension against its suspension spring and moves the system by a small amount. Due to the combined holding force of the remaining motors, this amount is smaller when compared to the step size of simultaneous motor operation. Here, the step size depends mainly on the total number of motors. Activating each motor in sequence (while the other motors stand by) creates the continuous motion.

Advantages of the multi-motor direct drive with sequential control (compared to simultaneous motor operation):

- Economic
- Force amplification without gearing: the resulting force equals to the sum of the individual forces
- Reduced total electric current: motors that stand by do not draw current
- Simplified control electronics: a single driver stage is shared by multiple motors

Elliptec AG was founded in 2001. Today Elliptec AG manufactures its low-cost piezoelectric motors and actuators in Dortmund, Germany. Elliptec AG also offers engineering and system integration services for consumer goods, medical, industrial electronics, and toys. Elliptec AG carries the DIN EN ISO 9001:2000 Certification (issued in December 2004) for standard of quality and quality control.



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