



PRESS RELEASE

GEEPLUS USES AIR BEARINGS TO DEVELOP A VOICE COIL MOTOR WITH A TOTALLY FRICTION FREE SHAFT MOVEMENT

Giving resolution down to one μmtr , a voice coil motor with a built in positioning encoder developed by Geeplus, is now available with an almost limitless lifespan thanks to the incorporation of an air bearing. Although used on large devices, this is believed to be the first time that such small dimensions have been achieved in this type of motor using an air bearing.

Replacing the recirculating linear ball bearings used in the previous model, the air bearing supports shafts of less than 3mm diameter without any friction whatsoever and therefore, zero wear. The precision of movement by the shaft enables simple and highly accurate monitoring of the stroke down to less than 1 micron.



Able to develop up to 3N of force, the VCM uses the high force and a low, 20gr mass to give high acceleration capability for ultra fast movement. Acceleration is up to 100G.

The extended life and smooth construction enables very precise control of force. This makes the device ideally suited to applications in medical equipment, automated measuring systems, optical and pointing systems.

The motor has a major diameter of 38mm and can be manufactured in a scaleable construction. All connections to the encoder are terminated with a single connection for easy integration by the OEM.

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