



## PRESS RELEASE

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## PILine<sup>®</sup> Ultrasonic Piezo Motors

Warsash Scientific is pleased to introduce a drive solution that customers can easily integrate into OEM applications themselves. The U-264 RodDrive offers a fast, low-profile linear drive for travel ranges from 50 to 150mm, velocities of up to 250mm/s, or propulsion forces of up to 15 N.

In the RodDrive, the piezo actuators are already connected to the runner, so to integrate it, only a guide and possibly a measuring system have to be connected. The RodDrive is a direct linear drive. Even without power, the piezoceramic PILINE linear motors have high holding forces that are stronger than the propulsion forces which prevent heat generation at rest.

In contrast to motor-leadscrew combinations, which create linear motion through mechanical transmission of the motor rotation, the RodDrive enhances size, reliability and velocity by doing without mechanical components, such as cog wheels, gearheads or leadscrews. Analogue-controllable drive electronics generate the electric voltages to operate the piezo motors.

Ideal applications for this drive include moving shutters, sorters, pipettes, sensing probes, etc. The RodDrive can also be used to create positioning systems in a precision class of a few micrometers to under one micrometer. Warsash Scientific offer more highly integrated linear positioning systems, XY stages or rotation adjusters with PILINE piezomotors.

### KEY FEATURES

- Fast, accurate identification
- Based on lab-proven Raman spectroscopy
- Easy to use
- Intuitive menu-driven interface enables fast training and proficiency
- Single test, multiple narcotics
- Non-contact sampling
- Scans directly through plastic or glass to minimise contamination, reduce exposure and preserve evidence
- Automated, tamper-proof records

For more information on ultrasonic piezo motors or integrated linear positioning systems, contact Warsash Scientific on +61 2 9319 0122 or [sales@warsash.com.au](mailto:sales@warsash.com.au).

