

## LPS-22 Linear Stages

Closed- and Open-Loop Versions



With a width of only 22 mm and travel ranges of up to 26 mm, the LPS-22 is one of the smallest precision linear stages available on the market.

LPS-22 stages can optionally be equipped with an incremental position measuring system enabling a closed-loop resolution of 1 nm.

A compact piezo inertia motor serves as the drive. This optimized drive design allows for maximum feed forces of 3 N and a velocity of up to 10 mm/s.

	Travel Range	Max. Feed Force	Resolution
LPS-22	6.5, 13 or 26 mm	3 N	< 1 nm open-loop
LPS-22 Closed-Loop	6.5, 13 or 26 mm	3 N	1 nm with incremental encoder and E-871 motion controller

## RPS Rotary Stages

Small and Even Smaller



RPS rotary stages are available in different sizes. They are based on very compact piezomotor-driven inertia drives and offer a velocity of up to 45°/s.

For operation, suitable drivers and motion controllers are available. These range from OEM boards and bench-top devices to multi-axis systems.

User software and drivers for programming Windows or LabView applications are included in the scope of delivery.

	RPS-14	RPS-22	RPS-32
Turntable Diameter	14 mm	22 mm	32 mm

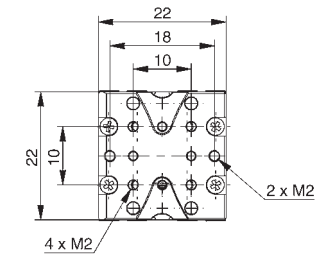
Preliminary data.

## Elaborated Design

For Ultra-High Vacuum Applications



Universal Hole Pattern for Serial Stack Design



Multi-Axis Combinations:  
2 to 6 Axes, Serial & Parallel Kinematics



## More Piezomotor Stages

The Perfect Solution for any  
Positioning Task



### LPS-45

High feed force with piezo inertial drives

- To 26 mm travel range
- 45 mm wide
- 10 N max. feed force
- 1 nm resolution



### M-663

Ultrasonic piezomotor technology for high velocity

- 18 mm travel range
- 35 mm wide
- 250 mm/s
- 2 N max. feed force
- 100 nm Resolution



### U-624

Ultrasonic piezomotor technology for high velocity

- Down to 20 mm diameter
- >720°/s
- 0.01 Nm torque
- To 52 µrad resolution with integrated incremental encoder

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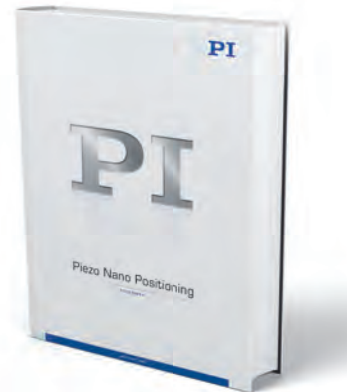
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## PIShift Piezomotor Stages

MILLIMETER SIZE - NANOMETER RESOLUTION