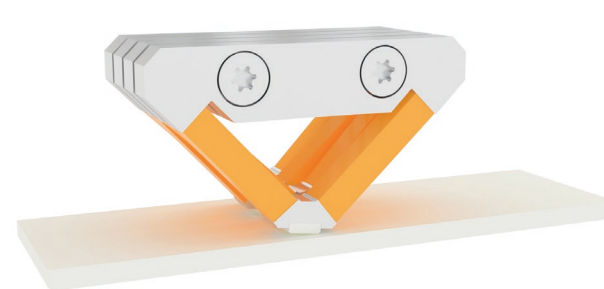


PI Piezomotor Technology

SELECTION GUIDE FOR THE BEST SOLUTION



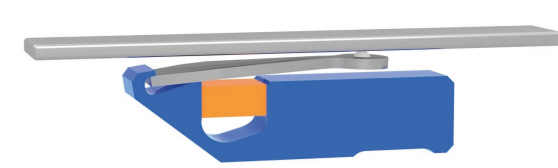
PiezoWalk® NEXACT®
Multi-actuator, multi-phase drive concept.
High-precision positioners with nm-resolution.



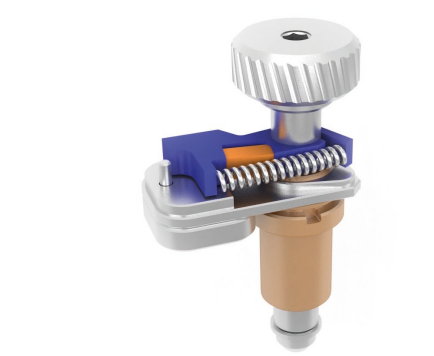
PICMAWalk V8 Drives
Multi-actuator, multi-phase drive concept.
Heavy-duty piezomotor with high velocity and nm-resolution.
Mainly used for OEM.



PiezoWalk® NEXLINE®
Heavy-duty piezomotor. Multi-actuator, multi-phase drive concept. High-force, high-precision positioners with nm-resolution possible. Low velocity. Mainly used for OEM.



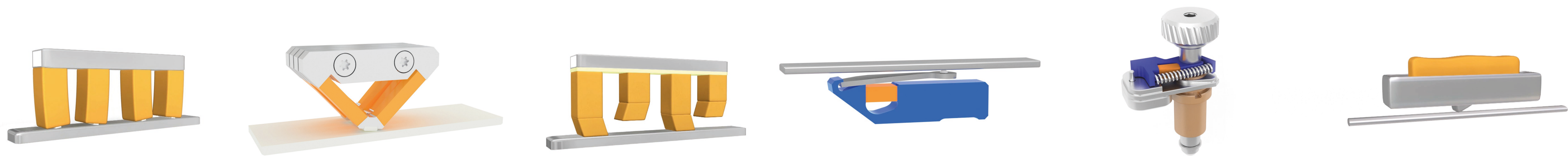
Piezo Inertia Drives
Smallest piezomotor drive principle. Cost-effective single-actuator, single-phase drive concept. Used for G-Motion series of miniaturized positioners with nm-resolution.



PiezoMike Actuators
Application of the piezo inertia drive used for linear actuators. Set-and-forget applications. High force, high stability, low velocity.



PILine® Ultrasonic Motors
Fastest piezomotor drive principle to several 100 mm/s. Cost-effective single-actuator, single-phase drive concept. Multi-phase drive concept optional for nm-precision and constant velocity.



Motion, Positioning		PiezoWalk® NEXACT®	PICMAWalk V8 Drives	PiezoWalk® NEXLINE®	Piezo Inertia Drives	PiezoMike Actuators	PILine® Ultrasonic Motors
Travel Range	<1 mm	+	+	+	+	+	+
	1 to 100 mm	+	+		+	approx. 25 mm	+
	>100 mm						approx. 200 mm
Feed Force	≤10 N	+	+	+	+	+	+
	10 to 1.000 N		<60 N	+		approx. 25 N	
	>1.000 N			+			
Velocity	≤1 mm/s	+	+	+	+	+	+
	~10 mm/s	+	<15 mm/sec		+		+
	>100 mm/s						+
Lifetime	≤1 Km	+	+	+		+	+
	~100 Km		+		+		+
	>10.000 Km						
Small Dimensions		+			+	+	+
Self-Locking at Rest		+	+	+	+	+	+
Ultra-High Vacuum		+	+	+	+		
Non Magnetic		+	+	+	+		+

Applications		PiezoWalk® NEXACT®	PICMAWalk V8 Drives	PiezoWalk® NEXLINE®	Piezo Inertia Drives	PiezoMike Actuators	PILine® Ultrasonic Motors
Mobile Devices	Battery Driven				+		+
	Self-Locking at Rest	+	+	+	+	+	+
	Small Dimensions	+			+	+	+
Semiconductor Manufacturing and Inspection	High-Force Position Stability		+	+		+	
	High-Class Clean Room	+	+	+	+		
	Ultra-High Vacuum	+	+	+	+		
Optical Superresolution Microscopy	Fast Settling	+	+		+		+
	Long-Range Motion	+	+	+	+		+
	High Resolution	+	+	+	+		+
Electron Microscopy / Beamline Instrumentation	Ultra-High Vacuum	+	+		+		
	Non-Magnetic	+	+		+		
	Small Dimensions	+			+		+
OEM Capabilities	Low Price				+	+	+
	In-House Engineering	+	+	+	+	+	+
	High-Volume Manufacturing	+	+	+	+	+	+