

# **PAHS**

#### Stack Actuator with Direct Translator



> 4x the stroke at lower capacity at only 20% more length



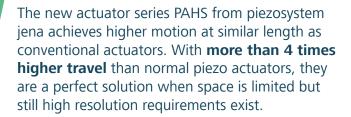
Similar repeatability as a standard system



Works with existing controllers



Easy plug and play solution when space is critical



PAHS actuators operate with the same **voltage band of 150V** and can therefore easily be integrated into existing systems by using the same con-trollers and amplifiers from piezosystem jena.

Like the PAHL Series, these actuators have high blocking forces and can move large masses. Due to the **integrated mechanical preload**, they can work under tensile forces and work well in dynamic applications. Their high resonant frequency guarantees fast settling times.



#### **Variants:**

- Standard
- With strain gauge
- Vacuum

## Recommended Controller:

NV200/D Net

### **Applications**

- Small space positioning applications
- Larger travel, medium speed dynamic motion
- Quasi static motion for medium masses



# **PAHS**Technical Data

**Casing Length** 

Part #		P-181-00	P-182-00	P-184-00	P-186-00
Actuator Name	Unit	PAHS 40	PAHS 80	PAHS 180	PAHS 240
Motion @ -20 130V*	μm	40	80	180	240
<b>Motion Closed-Loop*</b>	μm	32	64	144	192
Capacitance**	μF	3.5	7	14	21
Resonant Frequency @ 5 gr	Hz	630	600	540	480
Blocking Force	N	800	800	800	800
Resolution Open-Loop***	nm	0.09	0.18	0.36	0.54
<b>Casing Diameter</b>	mm	20	20	20	20

46

mm

**55** 

**73** 

91

<sup>\*</sup> Typical value measured with 0.3mV Controller.

<sup>\*\*</sup> Typical value for a small electrical field strength.

<sup>\*\*\*</sup> Typical values measured at -20 V ... +130 V.