

The fastest microscope objective Z-piezo stage P-726 High-Performance PIFOC®



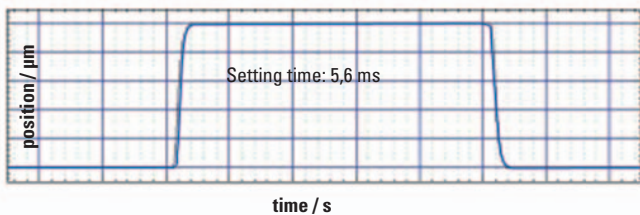
PI has extended its successful PIFOC® line of objective nanopositioners with a new, high-power unit. The P-726 PIFOC® can move heavy, high-NA objectives (>200 g, 7 oz) faster than any other system currently available, with accuracies of 1 nm over a travel range of 100 µm.

Here, the convincing performance specifications – achieved with a load of 300 g (11 oz): The P-726 can be operated with a variety of controllers ranging from the economical E-621 card, the E-625 controller to a number of digital controllers for the highest possible performance.

- Resonant frequency: 430 Hz (with 300 g), 1100 Hz without objective
- Closed-loop position noise: <0.4 nm
- Position stability over 100 s: 4 nm
- Maximum operating frequency (amplitude <10 µm): 150 Hz*
- Maximum operating frequency with full travel (100 µm): 60 Hz*
- Settling time (10 µm steps): 6 ms**
- Settling time (full travel): 15 ms**

* Amplifier power limited.
Higher performance with E-505,
200 W power module
** Faster settling with smaller load

10 µm step



Settling behavior of the P-726 for a 10 µm step.

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Physik Instrumente (PI)
GmbH & Co. KG
Auf der Römerstrasse 1
D-76228 Karlsruhe
Tel. +49 721 4846-0
Fax +49 721 4846-100
info@pi.ws

Editor:
Dr. Karl Spanner

Editorial Staff:
Steffen Arnold,
Stefan Vorndran,
Sandra Ebler

Creation & Design:
Regelmann Kommunikation,
Pforzheim

Production:
Systemedia, Pforzheim

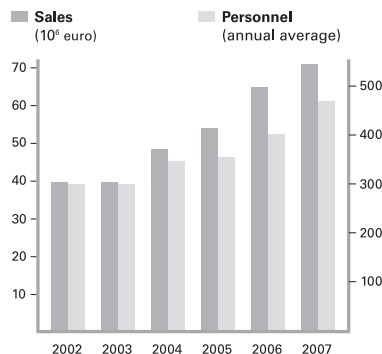
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- Innovative applications in semi-conductor technology, biomedical sciences and metrology
- Unrivalled piezo technology, both customized for niche markets and as alternative drives in automation and handling
- Double-digit growth rates in recent years and outstanding prospects for the future

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personnel
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June 3 – 5	Nanotech	Boston, MA, USA	Hynes Convention Center	NSTI	Booth #910
June 24 – 26	Astronomical Instrumentation	Marseille, France	Palais des Congres Parc Chanot Conf. Ctr	SPIE	Booth #131
July 15 – 17	Semicon West	San Francisco, CA, USA	Moscone- North Hall	Semi	Booth #6346
Aug 12 – 14	Optics & Photonics	San Diego, CA, USA	San Diego Convention Center	SPIE	Booth #443
Sept 17 – 18	Diskcon	Santa Clara, CA, USA	Hyatt Regency/ Santa Clara Conv. Ctr	IDEMA	Booth #101

USA

PI (Physik Instrumente) L.P.
16 Albert St.
Auburn, MA 01501
Tel. +1 (508) 832 3456
Fax +1 (508) 832 0506

5420 Trabuco Rd., Suite 100
Irvine, CA 92620
Tel. +1 (949) 679 9191
Fax +1 (949) 679 9292
info@pi-usa.us
www.pi-usa.us

JAPAN

PI Japan Co., Ltd.
Akebono-cho 2-38-5
Tachikawa-shi
J-Tokyo 190
Tel. +81 (42) 526 7300
Fax +81 (42) 526 7301

Hanahara Dai-ni Building, #703
4-11-27 Nishinakajima,
Yodogawa-ku, Osaka-shi
J-Osaka 532
Tel. +81 (6) 6304 5605
Fax +81 (6) 6304 5606
info@pi-japan.jp
www.pi-japan.jp

GREAT BRITAIN

PI (Physik Instrumente) Ltd.
Lambda House, Batford Mill
GB-Harpenden, Hertfordshire
AL5 5BZ
Tel. +44 (1582) 764 334
Fax +44 (1582) 712 084
pi@lambdaphoto.co.uk
www.lambdaphoto.co.uk

ITALY

Physik Instrumente (PI) S. r. l.
Via G. Marconi, 28
I-20091 Bresso (MI)
Tel. +39 (02) 665 011 01
Fax +39 (02) 665 014 56
info@pionline.it
www.pionline.it

FRANCE

PI France S.A.S.
32 rue Delizy
F-93694 Pantin Cedex
Tel. +33 (1) 48 10 39 38
Fax +33 (1) 48 10 09 66
info@pi-france.fr
www.pi-france.fr

CHINA

**Physik Instrumente
(PI Shanghai) Co., Ltd.**
Building No. 7-301
Longdong Avenue 3000
201203 Shanghai, China
Tel. +86 (21) 687 900 08
Fax +86 (21) 687 900 98
info@pi-china.cn
www.pi-china.cn