

Optical Inner Wall Metrology System

New release

NMH-02



Visualize inner surface of holes as small as $\phi 1.1\text{mm}$
 Digital measurement accurate to within $0.2\mu\text{m}$

Now accepting work samples!




Features

- Measure inner diameter/circularity of small holes of $\phi 1.1\text{mm}$ or more.
- High repeated measuring accuracy : $\sigma = 0.2\mu\text{m}$
- Setting free : work's inclination automatically adjusted by original computing.
- Measuring time : 30min (conventional) reduced to 30sec (simultaneous measurement of inner diameter/circularity/shape)

Applicable work samples

※ $0.01\mu\text{m}$ unit

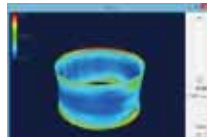
Ring gauge



Gauge diameter : 3.900

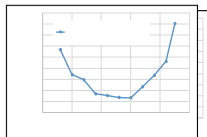
NMH-02

3D




Result : $\Phi 3.89977$
(center position)

2D inner dia. data



Inner diameter measured at each point of Z-axis.

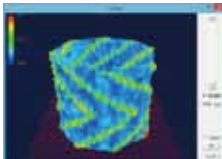
Dynamic bearing



Inner diameter : $\Phi 1.60$


NMH-02

3D




Result : $\Phi 1.60122$

2D image



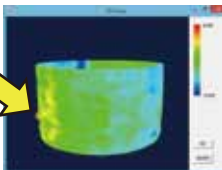
Hydrodynamic bearing groove

Scratch detection

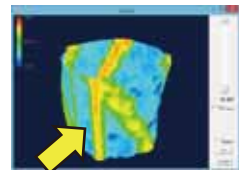


NMH-02

dent detected

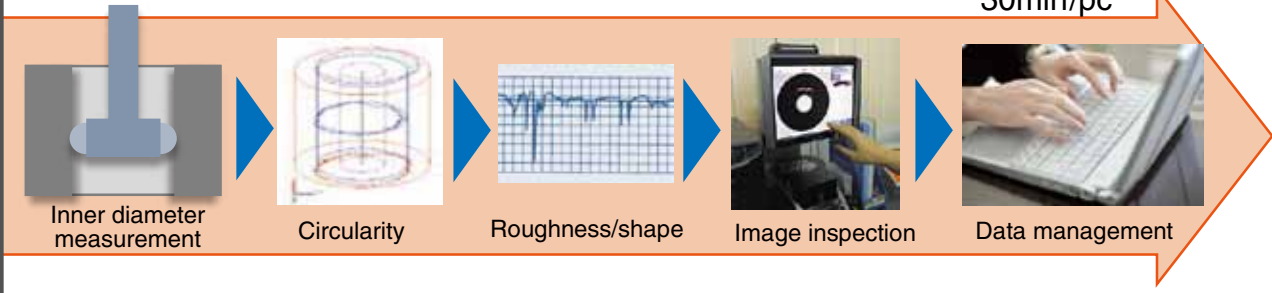


scratch detected

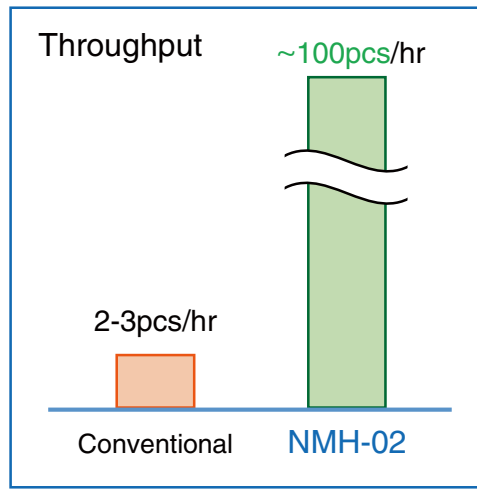
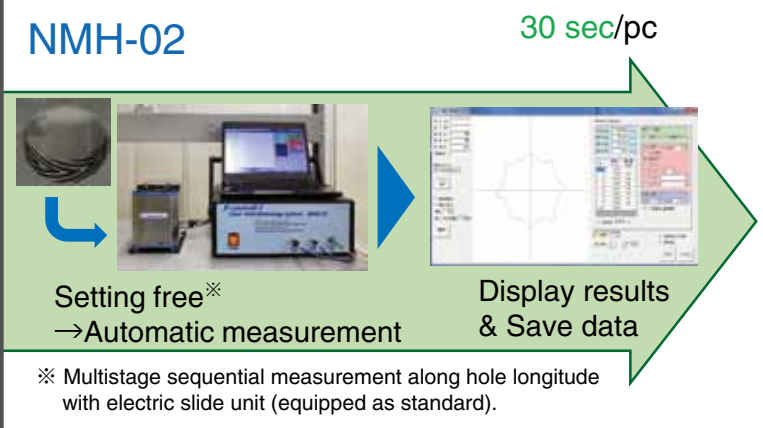


Comparison to conventional method

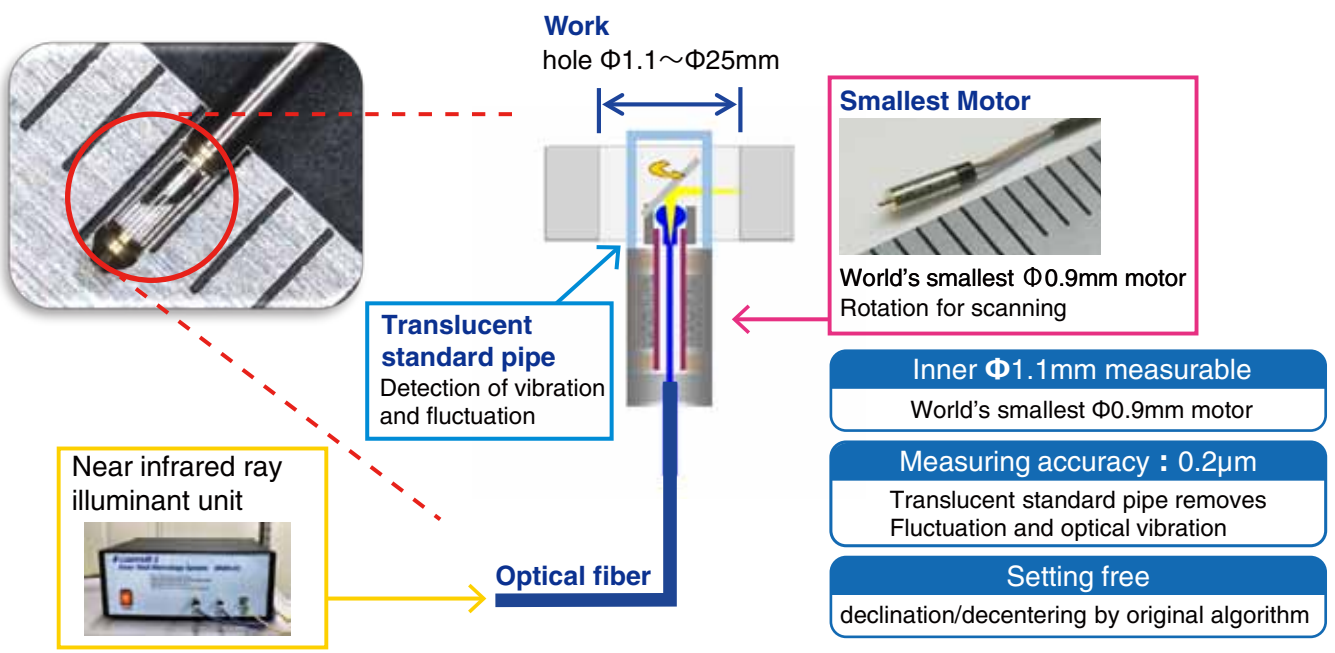
Conventional Method



NMH-02



Probe Spec



Adamant Namiki Precision Jewel Co., Ltd.

Headquarter : 3-8-22 Shinden, Adachi-ku, Tokyo 123-8511 Japan
 TEL : +81-3-5390-7620 FAX : +81-3-5390-8082
 URL : <https://www.ad-na.com/en> E-mail : motor-sales@namiki.net