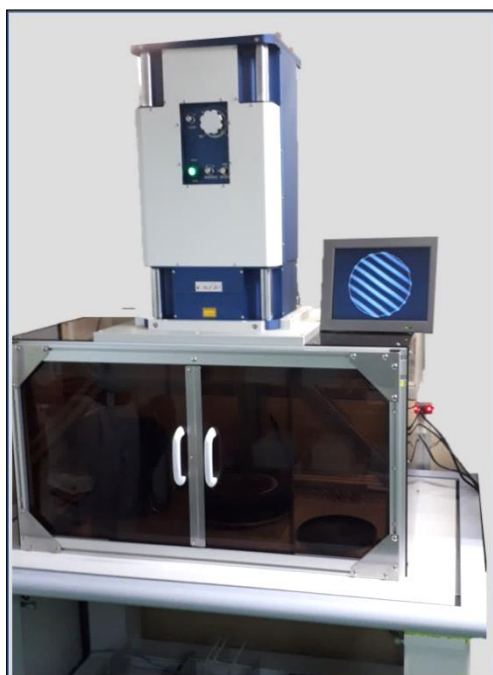


Akion Laser interferometer lineup

Tomei Giken develops, manufactures and sells laser interferometer systems under its own brand Akion®. The diameters are 4 inches (Φ100mm), 6 inches (Φ150mm), 2.5 inches (Φ60mm), and 1.5 inches (Φ38mm). Furthermore, by preparing a wide variety of stands, we have a system that meets the measurement needs of many customers.

It is possible to measure and evaluate the polished surfaces of small to large diameter lenses, flat glass, wafers, mirrors, etc. with a high accuracy of $\lambda/20$.

AK-150ZF: 6inch(150mm)



AK-100ZF: 4inch(100mm)



AK-40ZF: 1.5inch(38mm)



AK-60ZF: 2.5inch(60mm)



NEW

(*) The anti-vibration table can be changed to a desktop active anti-vibration table.

(*) The above interferometer system can be installed vertically or horizontally.

《Akion Laser Interferometer Specifications》



	AK-150ZF	AK-100ZF	AK-60ZF	AK-40ZF
Measurement aperture	6 inch (150mm)	4 inch(100mm)	Φ60mm	1.5 inch (38mm)
Light source	He-Ne laser (633nm,2mW)	He-Ne laser (633nm,2mW)	He-Ne laser (633nm,2mW)	He-Ne laser (633nm,2mW)
Magnification	1x to 6x (manual optical zoom)	1x to 6x (manual optical zoom)	Switch between 1x, 2.5x and 6x (manual optical zoom)	1x to 6x (manual optical zoom)
Body dimensions	604×316×316 mm	338×190×254 mm	330×170×180 mm	248×121×127 mm
Body weight	42 kg	14kg	9kg	4.5 kg
Measuring stroke	Determined after separate consultation	standard: about 600mm (Special order: 800mm)	Determined after separate consultation	Determined after separate consultation
Reference surface accuracy	$\lambda/20$	$\lambda/20$	$\lambda/20$	$\lambda/10$
Sample adjustment	2 axis stage (α, β -tilt)	5 axis stage (α, β -tilt, x, y, z-shift)	5 axis stage (α, β -tilt, x, y, z-shift)	5 axis stage (α, β -tilt, x, y, z-shift)
Installation volume	W1500xD800xH1800mm	W1000xD900xH2000mm	—	W250xD250xH800mm
Power supply	AC 110/240 V, 50/60 Hz 50 W	AC 110/240 V, 50/60 Hz 50 W	AC 110/240 V, 50/60 Hz 50 W	AC 110/240 V, 50/60 Hz 50 W

(*) The above laser interferometer system can be installed vertically or horizontally.

◆ Newton fringe inspection system



This system improves the reproducibility of Newtonian fringe inspection by fixing the position of the test lens and fine-tuning the reference lens.

Measurement aperture	AK-100ZF: 4 inch(100mm) AK-40ZF: 1.5 inch (38mm)	Measuring stroke	standard: about 200mm
Light source	He-Ne laser (633nm,2mW)	Reference surface accuracy	$\lambda/20$, $\lambda/10$
Magnification	1x to 6x (manual optical zoom)	Sample adjustment	Reference Lens : 5 axis (α, β -tilt, x, y, z-shift) sample stand : 1axis (z-shift)
Installation volume	W600×D600×H約1000 mm	Weight	AK-100ZFsystem: about 60kg

(*) A table anti-vibration stand can be prepared separately.