

Portable Wafer Probe Station PS-5026A

Advanced TLP/HMM Solutions

1 Features

- Portable manual wafer probe station
- Electrically isolated chuck with vacuum interface and wafer backside potential connector
- Trinocular stereo zoom microscope with 80 times magnification and camera interface for chipfotors
- Ultra long-life 20000 lx white LED ring light
- High reliability
- Low cost

2 System Description

The PS-5026A portable wafer probing station (Fig. 1) enables manual TLP/VF-TLP/HMM wafer-level measurements on up to 300 mm wafers. The probing station can also be used for RF, S-parameter and DC-measurements. Micromanipulators with vacuum and magnetic base can be attached.

The chuck has a vacuum interface for the wafer and is electrically isolated. A 4 mm connector is used to connect a voltage potential to the wafer backside.

The trinocular microscope has 80 times magnification and is equipped with a camera interface and a bright and ultra long-life 20000 lx LED ring light.

The optional Picoprobe[®] and Harmonic-Drive[®] Kit PHD-3001A (Fig. 2) is electrically isolated and can be customized for various micromanipulators.

The PS-5026A is a rugged portable wafer probing solution which has been designed for high reliability, compact size and minimum investment cost.



Figure 1: PS-5026A portable wafer probe station

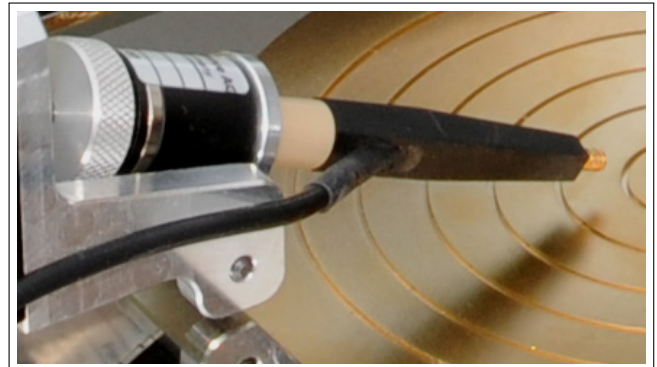


Figure 2: PHD-3001A Picoprobe[®] and Harmonic-Drive[®] Kit, customizable for various micromanipulators

3 Specifications

Parameter	Symbol	Limit Values			Unit	Remarks
		Min.	Typ.	Max.		
PS-5026A dimensions	W x D x H	500 x 300 x 500			mm ³	system as shown in Fig. 1
PS-5026A weight	G _S		14		kg	system as shown in Fig. 1
Chuck diameter	d _C		150		mm	up to 300 mm wafers can be attached
Chuck capacitance to GND	C _{C,GND}		70		pF	if chuck is not connected (floating)
Microscope magnification	M	10		80		variable
Microscope white LED light source	L _{LED}			20000	lx	variable

4 Ordering Information

Pos.	Description	Part No.
01	Portable wafer probing station including trinocular microscope and LED light	PS-5026A
02	Picoprobe [®] and Harmonic-Drive [®] Kit (Fig. 2), customizable for various micromanipulators	PHD-3001A
03	Miniature vacuum pump	VP-5026A